#### DOCUMENT RESUME

ED 459 094 SO 033 041

AUTHOR Stephenson, Jack R., Ed.

TITLE Missouri Journal of Research in Music Education, 1977-1981.

INSTITUTION Missouri Music Educators Association.

PUB DATE 1981-00-00

NOTE 554p.; For other issues of this journal, see SO 033

038-0049. Some text may not reproduce well. Published

annually.

AVAILABLE FROM Editor, Missouri Journal of Research in Music Education,

University of Missouri-Kansas City, Conservatory of Music,

4949 Cherry Street, Kansas City, MO 64110-2229.

PUB TYPE Collected Works - Serials (022)

JOURNAL CIT Missouri Journal of Research in Music Education; v4 n1-5

1977-1981

EDRS PRICE MF02/PC23 Plus Postage.

DESCRIPTORS Applied Music; \*Classroom Techniques; Curriculum

Development; Elementary Secondary Education; Higher Education; \*Music Activities; \*Music Education; \*Music

Teachers; \*Scholarship

IDENTIFIERS Colorado; \*Missouri; Music History; Ohio; Pennsylvania

#### ABSTRACT

This journal is devoted to the needs and interests of the school and college music teachers of Missouri and the United States. Articles in Volume 4, Number 1 are: "Index of Articles in the 'Colorado Journal of Research in Music Education, ' 1964-1973" (S. Deich); "Index of Articles in the 'Missouri Journal of Research in Music Education,' 1962-1976" (S. Deich); "Index of Articles in the 'Contributions to Music Education,' Ohio Music Education Association, 1972-1976" (S. Deich); "Index of Articles in the 'Bulletin of Research in Music Education,' Pennsylvania Music Educators Association, 1970-1976" (S. Deich); and "Selected Abstracts in Music Education" (n=9). Articles in Volume 4, Number 2 are: "A Curriculum for Teaching Musicianship to Secondary School Students: Composing, Listening, Analyzing and Performing" (L. B. Hilton); "Retention of Songs, Stories, and Poems by Retarded Children" (W. Lathom); "The Relationships of Selected Academic, Musical, and Background Factors to Grades Obtained in Undergraduate Music Theory and Ear Training Courses" (S. J. Emig); "American Tune Book Compilations Using Shaped-Note Systems, 1801-1860, A Forerunner of American Music Education" (D. L. Oakley); and "Selected Abstracts in Music Education" (n=11). Articles in Volume 4, Number 3 are: "Music as Reinforcement in Increasing Spontaneous Speech among Autistic Children" (D. Watson); "A Study of Several Methods of Handling the Boy's Changing Voice" (F. R. Willman); "The Effect of Training in Interaction Analysis on the Verbal Teaching Behaviors and Attitudes of School Instrumental Music Education Students Studying Conducting" (C. E. Hicks); "The Child-Centered vs. The Adult-Centered Rationale: A Dualistic Approach to the Use of Philosophy in Curriculum Development with Special Application to Music Education" (R. Boyer); and "Selected Abstracts in Music Education" (n=12). Articles in Volume 4, Number 4 are: "A Philosophy for Group Piano Instruction Based upon Learning Theory and Group Interaction Theory" (D. Montano); "The Development of American Public School Elementary String Classes and Orchestras to 1950" (J. E. Hoisington); "The Role of Ethnomusicology in Music Education" (L. B. Hilton); and "Selected Abstracts in Music Education" (n=9). Articles in

Volume 4, Number 5 are: "A Survey of the Evolution and Development of the Horn Style" (E. J. Bostley); "The Effect of Approval, Disapproval, and Teacher Error on Classroom Attentiveness: High School Band versus High School Chorus" (D. E. Moyer); "A Comparison of Frequency Discernment Abilities" (O. G. Parker); "Editorial Perspectives in Sunday School Hymnals Published between 1859 and 1898 which Reflect Educational Philosophy and Practice" (M. Voogt); "A Position Paper--Toward Knowing and Liking Musical Styles: The Heuristic Method" (P. K. Shehan); and "Selected Abstracts in Music Education" (n=8). (BT)

#### Missouri Journal of Research in Music Education, 1977-1981

Jack R. Stephenson, Editor

Volume 4, Numbers 1-5

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

- This document has been reproduced as received from the person or organization originating it.
- Minor changes have been made to improve reproduction quality
- Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL HAS BEEN GRANTED BY

W. Fredrickson

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

.

# MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

Volume IV

Number 1

1977

Published by the

Missouri Music

**Educators Association** 

#### MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

#### Published by the Missouri Music Educators Association

ime	IV 1977	Numb	er 1
Ι.	Index of Articles in the <u>Colorado Journal</u> of Research in <u>Music Education</u> , 1964-1973 by Susan Deich, Washington University		7
I.	Index of Articles in the Missouri Journal of Research in Music Education, 1962-1976 by Susan Deich, Washington University	• •	24
[].	Index of Articles in the Contributions to Music Education, Ohio Music Education Association, 1972-1976 by Susan Deich, Washington University	• •	77
[V.	Index of Articles in the <u>Bulletin of</u> <u>Research in Music Education</u> , Pennsylvania <u>Music Educators Association</u> , 1970-1976 by Susan Deich, Washington University		88
٧.	Selected Abstracts in Music Education		113
	A. Healey Willan: The Independent Organ Works Joylin Campbell-Yukl, University of Missouri-Kansas City		113
	B. An Evaluation of G. F. Handel's Use of the Oboe in his Arias Sara A. Funkhouser, University of Missouri-Kansas City		115

			117
C. Don Agostino Scozzese's Il Primo	Libro di Madrigali a 5 Voci	William J. Gillis, University	of Missouri-Kansas City

- of Missouri-Kansas City . . . Golden Mean Proportion in Nine Beethoven Piano-Violin Sonatas Beth L. Hurlburt, University of the First Movements of the \_
- 120 Effect of a Systematic Instru-mental Model on Musical Concept June Thomsen Jetter, Faculty, Kansas City . . . . . . . Development by Four-Year-01d University of Missouri-. نى
- Washington University . . . . A Biography of Niccolo Piccinni and a Critical Study of His La Margaret McGinness Liggett, Didone and Didon ٠.
- Musical Time and Time Signatures and Their Relation to Horologi-cal Developments in the Seven-Ellen TeSelle-Boal, Washinton University ..... teenth Century . :
- University ..... Stromenti da Tirarsi in the Darrell Urban, Washington Cantatas of J. S. Bach ÷
- 127 cianship in the First Year of A Program for Teaching Musi-Charles Lester Wentworth Class String Instruction

### MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

University of Missouri-Kansas City Kansas City, Missouri 64111 Telephone: 816 276-2731 Conservatory of Music Jack R. Stephenson Editor:

## Editorial Committee:

June T. Jetter--University of Missouri-Kansas City Lewis B. Hilton--Washington University, St. Louis Charles Emmons--University of Missouri-Columbia

F. Bion McCurry--Southwest Missouri State Uni (Acting Editor)

Jack L. Ralston--University of Missouri-Kansas City Douglas Turpin--Parkway Public Schools, St. Louis versity, Springfield, Missouri

# Submitting Manuscripts:

- Contributions to this journal should be sent to the editor. (See above for the address.)
- losophical, historical or scientific nature which report the results of research perti-The editors welcome contributions of a phinent in any way to instruction in music as carried on in the educational institutions of Missouri.
- Articles should be typewritten with double spacing throughout including footnotes, long quotations and itemized lists.
- Footnotes should be placed consecutively at the end of the article beginning on a new bage using triple spacing between notes.

Authors reporting quantitative studies may substitute a list of references for footnotes in accordance with practice followed in many scientific journals.

- 5. Manuscript style should follow recommendations made in the MLA Style Sheet. The Chicago Manual of Style should be followed in setting up tables, charts and figures, which should be numbered and placed on separate pages.
- All contributors are advised to keep a copy of any manuscript submitted. The Editorial Committee cannot be responsible for loss of manuscripts.

### Securing Copies:

- 1. Requests for the current and back issues should be made directly to the editor.
- Costs including mailing: current issue, \$2.00. Back issues, \$1.00.

#### PREFACE

The Missouri Journal of Research in Music Educatorition, published by the Missouri Music Educators Association, is devoted to the needs and interests of teachers of music in Missouri and the nation. This issue, Volume IV, Number 1, is the sixteenth to appear in as many years.

The members of the Editorial Committee are grateful to those readers who have written suggestions concerning the content of past issues and request that
criticisms and suggestions again be sent to the Editor
concerning the content of this issue. We strive for a
reasonable balance among music theory, history, philosophy, aesthetics, and pedagogy.

We express our deep gratitude to the Missouri Music Educators Association for their financial support to make it possible to continue to publish the Missouri Journal of Research in Music Education.

The Editorial Board

ഹ

the beginning page of the article and the year of publicaby the compiler. Author, title, and subject indices are given in a separate compilation for each Journal. Abstracts of, or reports based on, dissertations or theses are identified by one asterisk (\*)indicating dissertation and two asterisks (\*\*) indicating thesis. The number of tion in the respective <u>Journal</u> are given for each entry. Readers should note that the compiler enters reviews of The following indices of articles from the Colorado Journal of Research in Music Education, Missouri Journal Pennsylvania) are presented here in the format devised of Research in Music Education, Contributions to Music Education, and Bulletin of Research in Music Education books under the name of the reviewer rather than the author of the book.

The Editors

### COLORADO JOURNAL OF RESEARCH IN MUSIC EDUCATION INDEX OF ARTICLES APPEARING IN THE 1964-1973

### TABLE OF CONTENTS

ω	12	16	9 ;	9;	9;	7:	7:	_;	_;	Σ,	Ω;	21 :	2 :	5 6	₹;	7:	7.5	7 5	77	77	22	<b>7</b>
		•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•	•	•	,
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	
	•	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	•	•	•	٠	٠	•	•	÷.	•	•	•	٠	•	
•	•	•	•	•	•,	•	•	•	•	•	•	•	•	•	•	٣	٠	٠	•	•	•	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	٠	Researc	•	•	•	•	•	
•	•	•	•	•	_	•	•	•	•	•	٠	•	•	•	•	ĕ	٠	•	•	•	•	
•	•	•	•	•	ication	•	•	•	•	•	•	•	•	•	٠	<u></u>	•	•	•	٠	•	
•	•	•	•	•	Ξ	•	•	•	•	•	•	٠	•	•	•	6	•	•	•	٠	•	
	•	•	•	٠	ၓ	•	•	_	•	•		•	•	•	٠	S	•	•	•	•	•	
•	•	•	•	•	4	•	یه	9	•	•	ĭ	•	•	_	•	ij	•		•	•	•	
•	•	•	•	•	Classi	Ξ	9	Maturati	Ξ	•	Ĕ	•	•	Materia	•	효	٠	Studies	•	•	•	
•	•	•	•	•	as	<u>::</u>	절	Ę	Ξ	•	ī	•	•	ē	ပ	Š	•	ġ	_	•	•	
•	•	•	•	•	$\overline{\mathbf{c}}$	ä	픚	펖	ä	•	15.	Ξ	•	<del>la</del> t	Music	$\equiv$	•	돴		•	З	
•	•	•	•	•	ਰੂ	Education	<b>Development</b>	Ĕ	Education	•	Measurement	Education	•		Σ	<b>Philosophies</b>	•	_	Special Education	S	Methods	
•	•	•	•	•	and	Щ	ڪ		Щ	•	_	g	•	٦a	_		•	g	ÿ	d;	닭	7
•	•	•		Ş	5	ng	E	Development,	>		Ĕ	¥	•	Instructional	[nstrumenta]	Methods and	æ	ij	ᅙ	Studies	ž	Š
•	•	•	Acoustics	<b>Aesthetics</b>	Cataloging	ij	Curriculum	Ĕ	Elementary	E thnology	Evaluation	Щ		ä	<u>ē</u>	10	Media	0	_	Š	β	ځ
•	•		Ή.	ē	0	Continui	್ಷ	9	ĭ	릇	Jat	gher	istory	کِ	Ę	ğ	ě	့်	<u>.</u> 6	SI	Teaching	אט/ני
ĸ		$\Box$	Sign	#	Ę	ij	ŗ	آe)	Ë	Ē	1	픑	<u>ب</u>	št	ž	훒	~ >	づ	ပ္ပ	Status	ᄗ	Ġ
웊	۳	E.	ပ္	es	à	Ö	Ę	é	=	₽	>	Ή	끞	۳	Ë	ē	New	S	Ğ	۲;	ĕ	-
AUTHOR	TITLE	SUBJECT	⋖	⋖	J	J	J	د	ш	ш	w				_	~	_	_	<b>,</b>	٠,	•	
		<i>U</i> )																				

BOSTROM, MARVIN J., Contemporary Music in Europe: A Comprehensive Survey. Fiftieth Anniversary Issue of the Musical Quarterly. (p. 9/1966)

BOSTROM, MARVIN J., Instructions to the Teacher in Schuster's Clavierstunden Fur Kinder, 1799-1800. (p. 18/1964)

BOWIE, GORDON., Choice of Music and Teaching of Musical Knowledge in the Band Rehearsal. (p. 14/1973) BUSCH, STEPHEN E., <u>Doctoral Dissertations in Nusic and Music Education</u>, 1957-1963. Compiled by Roderick D. Gordon. (p. 40/1965)

BUSCH, STEPHEN E., Programmed Music Instruction: Some Structural Elements and General Characteristics and their Relation to Two Recent Research Studies. (p. 40/1964)

CAMPBELL, ALEX B., Music Curriculum Guides. By Harold W. Arberg. (p. 38/1965)

\*CAMPBELL, ALEX B., A Survey and Evaluation of Current Methods, Techniques, and Content in Vocal Performing Groups in Selected Secondary Schools in Wyoming. By Alice Mary Ramer. (p. 9/1968)

\* CAMPBELL, JAY J., A Comparison of Two Distributed Instructional Periods in the Teaching of Beginning Instrumental Music Students. By Carroll A. Childs. (p. 52/1964)

\* CHILDS, GORDON B., Baroque String Chamber Works Incorporating Techniques Essential to the Development of Performing Ability by Violinists. By Roscoe M. Booth. (p. 45/1965)

CLENDENIN, WILLIAM R., Music Reference and Research Materials. Compiled by Vincent Duckles. (p. 35/1965)

GEORGE, MARVIN, Music Research Handbook. By Hazel B. Morgan and Clifton A. Burmeister. (p. 39/1965) GREENE, ALLEN W., An Introduction to Library Resources for Music Research. By Keith E. Mixter. (p. 37/1965)

\*HAMMER, HARRY, A Comparison of Three Methods for Improving Intonation in the Performance of Instrumental Music. By William L. Graves, Jr. (p. 49/1964)

HARBOLD, MARY L., A Summary of Current Developments in Musical Acoustics. (p. 13/1965)

HOCKENBERRY, E'RENA, Teaching a Familiarity with the Instruments of the Orchestra in the Elementary School. (p. 37/1964)

JOHN, ROBERT W., Pure Research in Music Education. (p. 5/1964)

\* JUHAS, EARL A., A Study of Instrumental Music Dropouts of the Moline (Illinois) Schools. By G. James Casey, Jr. (p. 42/1965)

KAPLA, PEGGY S., Rhythm and Music Experiences for the Hearing-Handicapped Child. (p. 30/1964)

KEARNS, WILLIAM, Hillbilly Music as a Tool. (p. 1/1973)

KING, RALPH, Measurement and Evaluation in Music. By William E. Whybrew. (p. 36/1965)

KLAUSMAN, GRANT J., A Brief History of the National School Music Contests. (p. 5/1966) \*LEHMAN, PAUL, An Investigation of Music Education at the University of Colorado Including a Follow-up of Graduates. By Clair Woodward. (p. 52/1964)

LEHMAN, PAUL R., The Contributions of Guido D'Arezzo to Music Education. (p. 3/1966) LEHMAN, PAUL R., A Study of the Extent to Which Music Courses Fulfill the Entrance Requirements of Colorado Colleges and Universities. (p. 35/1964)

- LEHMAN, PAUL R., Support for Research in Music Education in Colorado. (p. 29/1965)
- \*LENICHELK, E., Ed., The Adaptation of Selected American Folk Tunes for Solo Trumpet with Instrumental Accompaniment. By Lawrence J. Meyer. (p. 47/1965)
- \*LEVY, RALPH W., A Critical Analysis of the Minnesota District and State Band Contest-Festival System with Implications for Its Improvement. By Harold E. Krueger. (p. 41/1965)
- MARTYN, CHARLES F., Recent Research on Clarinet Reeds and Mouthpieces. (p. 22/1964)
- McCARTHY, KEVIN J., Tradition in Transition. (p. 19/1973)
- MEYER, LEO, Music and Art in the Public Schools. NEA Research Monograph. (p. 34/1965)
- \*MONSOUR, SALLY, The Music of the Sioux Indian of the Rosebud Reservation in South Dakota and Its Use in the Elementary School. By James William Jurrens. (p. 9/1968)
- NISBETT, ROBERT F., Office of Education Support for Research and Related Activities. (p. 9/1968)
- OFEI, PATRICK, Music in West Africa. (p. 22/1973)
- PARSONS, JOHN N., String Music in Print. By Margaret K. Farish. (p. 9/1966)
- PELLERIN, NINA S., The Measurement of Music Achievement with a Unique Evaluative Instrument. (p. 7/1964)
- PFLEDERER, MARILYN, Research: An Aid in Planning for Music Reading Experiences. (p. 1/1966)
- PHELPS, ROGER P., Some Observations Relative to Research in Music Education. (p. 5/1965)

- \*REEVES, WILLIAM N., A Comparative Study of Certain Aspects of Music Instruction in Selected Elementary Schools of the United States and Great Britain. By Maynard C. Anderson. (p. 50/1964)
- \*REEVES, WILLIAM N., Kansas Music Educators Association: The Establishment, Development, and Philosophy of Music Education. By Leland D. Crapson. (p. 42/1965)
- SANDFORD, GORDON, Higher Education: How the Office of Education Assists College Students and Colleges. (p. 8/1968)
- SANDFORD, GORDON, A Sermon on Music from 1771. (p. 4/1968)
- SEARS, MARGARET F., The Tape Recorder Employed in the Development of Children's Singing: An Experimental Study. (p. 8/1965)
- SEAY, ALBERT, Musical Instruments: A Comprehensive Dictionary. By Sybyl Marcuse. (p. 33/1965)
- \*SMITH, JERRY N., The Designation of the Appropriate Grade Level for Beginning Instrumental Study. By E. Duane Strachan. (p. 46/1965)
- STEWART, FRANK GRAHAM, Teaching Music. (p. 5/1968)
- WALKER, CHERYL-LYNN, Colorado's Community Orchestras. (p. 28/1964)
- WEERTS, RICHARD K., Recommendations for Increased Effectiveness in the Memorization of Music. (p. 26/1965)
- WILCOXSON, IDA, Faster Learning Through Singable Materials. (p. 26/1964)
- WILSON, KAY, History of Selected Songs of the American Civil War. (p. 23/1965)
- ZIMMERMAN, ALEX H., Music in Our Schools: A Search for Improvement. Prepared by Claude V. Palisca.

.

ZIMMERMAN, MARILYN PFLEDERER, Musical Concepts Forma-tion: A Review of the Research Literature. (p. 1/

SOLO TRUMPET WITH INSTRUMENTAL ACCOMPANIMENT. By Lawrence J. Meyer. Rev. by Lenichelk, E., Ed. (p. 47/1965) \*THE ADAPTATION OF SELECTED AMERICAN FOLK TUNES FOR

\*BAROQUE STRING CHAMBER WORKS INCORPORATING TECHNIQUES
ESSENTIAL TO THE DEVELOPMENT OF PERFORMING ABILITY
BY VIOLINISTS. By Roscoe M. Booth. Rev. by Childs,
Gordon B. (p. 45/1965)

A BRIEF HISTORY OF THE NATIONAL SCHOOL MUSIC CONTESTS -Klausman, Grant J. (p. 5/1966)

CHOICE OF MUSIC AND TEACHING OF MUSICAL KNOWLEDGE IN THE BAND REHEARSAL - Bowie, Gordon. (p. 14/1973)

COLORADO'S COMMUNITY ORCHESTRAS — Walker, Cheryl-Lynn. (p. 28/1964) \*A COMPARISON OF THREE METHODS FOR IMPROVING INTONATION IN THE PERFORMANCE OF INSTRUMENTAL MUSIC. By William L. Graves, Jr., Rev. by Hammer, Harry. (p. 49/1964)

STUDENTS. By Carroll A. Childs. Rev. by Campbell, Jay J. (p. 52/1964) \*A COMPARISON OF TWO DISTRIBUTED INSTRUCTIONAL PERIODS IN THE TEACHING OF BEGINNING INSTRUMENTAL MUSIC

COMPARATIVE STUDY OF CERTAIN ASPECTS OF MUSIC IN-STRUCTION IN SELECTED ELEMENTARY SCHOOLS OF THE UNITED STATES AND GREAT BRITAIN. By Maynard C. Anderson. Rev. by Reeves, William N. (p. 50/1964) ¥

CONTEMPORARY MUSIC IN EUROPE: A COMPREHENSIVE SURVEY. FIFTIETH ANNIVERSARY ISSUE OF THE MUSICAL QUARTERLY Rev. by Bostrom, Marvin J. (p. 9/1966)

THE CONTRIBUTIONS OF GUIDO D'AREZZO TO MUSIC EDUCATION -Lehman, Paul R. (p. 3/1966)

\*A CRITICAL ANALYSIS OF THE MINNESOTA DISTRICT AND STATE BAND CONTEST-FESTIVAL SYSTEM WITH IMPLICATIONS FOR ITS IMPROVEMENT. By Harold E. Krueger. Rev. by Levy, Ralph W. (p. 41/1965)

\*THE DESIGNATION OF THE APPROPRIATE GRADE LEVEL FOR BE-GINNING INSTRUMENTAL STUDY. By E. Duane Strachan. Rev. by Smith, Jerry N. (p. 46/1965)

1957-1963. Compiled by Roderick D. Gordon. Rev. by Busch, Stephen E. (p. 40/1965) DOCTORAL DISSERTATIONS IN MUSIC AND MUSIC EDUCATION,

FASTER LEARNING THROUGH SINGABLE MATERIALS - Wilcoxson, Ida (p. 26/1964)

HIGHER EDUCATION: HOW THE OFFICE OF EDUCATION ASSISTS COLLEGE STUDENTS AND COLLEGES — Sandford, Gordon.

HILLBILLY MUSIC AS A TOOL — Kearns, William. (p. 1/1973) HISTORY OF SELECTED SONGS OF THE AMERICAN CIVIL WAR Wilson, Kay. (p. 23/1965)

INSTRUCTIONS TO THE TEACHER IN SCHUSTER'S CLAVIERSTUNDEN FUR KINDER, 1799-1800 — Bostrom, Marvin J. (p. 18/

BY Keith E. Mixter. Rev. by Greene, Allen W. (p. 37/ AN INTRODUCTION TO LIBRARY RESOURCES FOR MUSIC RESEARCH

Clair Woodward. Rev. by Lehman, Paul. (p. 52/1964) \*AN INVESTIGATION OF MUSIC EDUCATION AT THE UNIVERSITY OF COLORADO INCLUDING A FOLLOW-UP OF GRADUATES.

- \*KANSAS MUSIC EDUCATORS ASSOCIATION: THE ESTABLISHMENT, DEVELOPMENT, AND PHILOSOPHY OF MUSIC EDUCATION. By Leland D. Crapson. Rev. by Reeves, William N. (p. 44/1965)
- MEASUREMENT AND EVALUATION IN MUSIC. By William E. Whybrew. Rev. by King, Ralph. (p. 36/1965)
- THE MEASUREMENT OF MUSIC ACHIEVEMENT WITH A UNIQUE EVALUATIVE INSTRUMENT Pellerin, Nina S. (p. 7/1964)
- MUSIC AND ART IN THE PUBLIC SCHOOLS. NEA Research Monograph -- Meyer, Leo. (p. 34/1965)
  - MUSIC CURRICULUM GUIDES. By Harold W. Arberg. Rev. by Campbell, Alex B. (p. 38/1965)
- MUSIC IN OUR SCHOOLS: A SEARCH FOR IMPROVEMENT. Prepared by Claude V. Palisca. Rev. by Zimmerman, Alex H. (p. 32/1965)
- MUSIC IN WEST AFRICA Ofei, Patrick. (p. 22/1973)
- THE MUSIC OF THE SIOUX INDIAN OF THE ROSEBUD RESERVATION IN SOUTH DAKOTA AND ITS USE IN THE ELEMENTARY SCHOOL.

  By James William Jurrens. Rev. by Monsour, Sally. (p. 9/1968)
- MUSIC REFERENCE AND RESEARCH MATERIALS. Compiled by Vincent Duckles. Rev. by Clendenin, William R. (p. 35/1965)
- MUSIC RESEARCH HANDBOOK. By Hazel B. Morgan and Clifton A. Brumeister. Rev. by George, Marvin. (p. 39/1965)
  - MUSICAL CONCEPT FORMATION: A REVIEW OF THE RESEARCH LITERATURE — Zimmerman, Marilyn Pflederer. (p. 1/
- MUSICAL INSTRUMENTS: A COMPREHENSIVE DICTIONARY. By Sibyl Marcuse. Rev. by Seay, Albert. (p. 33/1965)
- OFFICE OF EDUCATION SUPPORT FOR RESEARCH AND RELATED ACTIVITIES Nisbett, Robert F. (p. 9/1968)

- PROGRAMMED MUSIC INSTRUCTION: SOME STRUCTURAL ELEMENTS
  AND GENERAL CHARACTERISTICS AND THEIR RELATION TO
  TWO RECENT RESEARCH STUDIES Busch, Stephen E.
  (p. 40/1964)
- PURE RESEARCH IN MUSIC EDUCATION -- John, Robert W. (p. 5/1964)
- REACHING A FAMILIARITY WITH THE INSTRUMENTS OF THE ORCHESTRA IN THE ELEMENTARY SCHOOL Hockenberry, E'Rena. (p. 37/1964)
- RECENT RESEARCH ON CLARINET REEDS AND MOUTHPIECES Martyn, Charles F. (p. 22/1964)
- RECOMMENDATIONS FOR INCREASED EFFECTIVENESS IN THE MEMORIZATION OF MUSIC Weerts, Richard K. (p. 26/1965)
- RESEARCH: AN AID IN PLANNING FOR MUSIC READING EX-PERIENCES -- Pflederer, Marilyn. (p. 1/1966)
- RHYTHM AND MUSIC EXPERIENCES FOR THE HEARING-HANDICAPPED CHILD Kapla, Peggy S. (p. 30/1964)
- A SERMON ON MUSIC FROM 1771 Sandford, Jordon. (p. 4/1968)
- SOME OBSERVATIONS RELATIVE TO RESEARCH IN MUSIC EDU-CATION -- Phelps, Roger P. (p. 5/1965)
- STRING MUSIC IN PRINT. By Margaret K. Farish. Rev. by Parsons, John N. (p. 9/1966)
- \*A STUDY OF INSTRUMENTAL MUSIC DROPOUTS OF THE MOLINE (ILLINOIS) SCHOOLS. By G. James Caset, Jr. Rev. by Juhas, Earl A. (p. 42/1965)
- A STUDY OF THE EXTENT TO WHICH MUSIC COURSES FULFILL THE ENTRANCE REQUIREMENTS OF COLORADO COLLEGES AND UNIVERSITIES Lehman, Paul R. (p. 35/1964)
- A SUMMARY OF CURRENT DEVELOPMENT IN MUSICAL ACOUSTICS Harbold, Mary L. (p. 13/1965)

ر ح

Leland D. Crapson. Rev. by Reeves, William N. (p. 44/ \*KANSAS MUSIC EDUCATORS ASSOCIATION: THE ESTABLISHMENT, DEVELOPMENT, AND PHILOSOPHY OF MUSIC EDUCATION. By

MEASUREMENT AND EVALUATION IN MUSIC. By William E Whybrew. Rev. by King, Ralph. (p. 36/1965)

THE MEASUREMENT OF MUSIC ACHIEVEMENT WITH A UNIQUE EVALUATIVE INSTRUMENT — Pellerin, Nina S. (p. 7/

NEA Research Monograph -- Meyer, Leo. (p. 34/1965) MUSIC AND ART IN THE PUBLIC SCHOOLS.

ES. By Harold W. Arberg. Rev. by (p. 38/1965) MUSIC CURRICULUM GUIDES. Campbell, Alex B.

pared by Claude V. Palisca. Rev. by Zimmerman, Alex Pre-MUSIC IN OUR SCHOOLS: A SEARCH FOR IMPROVEMENT.

(p. 32/1965)

THE MUSIC OF THE SIOUX INDIAN OF THE ROSEBUD RESERVATION IN SOUTH DAKOTA AND ITS USE IN THE ELEMENTARY SCHOOL. By James William Jurrens. Rev. by Monsour, Sally. (p. 9/1968) MUSIC IN WEST AFRICA — Ofei, Patrick. (p. 22/1973)

MUSIC REFERENCE AND RESEARCH MATERIALS. Compiled by Vincent Duckles. Rev. by Clendenin, William R. SIC RESEARCH HANDBOOK. By Hazel B. Morgan and Clifton A. Brumeister. Rev. by George, Marvin. (p. 39/1965) MUSIC RESEARCH HANDBOOK.

LITERATURE — Zimmerman, Marilyn Pflederer. (p. 1/ MUSICAL CONCEPT FORMATION: A REVIEW OF THE RESEARCH

Sibyl Marcuse. Rev. by Seay, Albert. (p. 33/1965) MUSICAL INSTRUMENTS: A COMPREHENSIVE DICTIONARY.

OFFICE OF EDUCATION SUPPORT FOR RESEARCH AND RELATED ACTIVITIES - Nisbett, Robert F. (p. 9/1968)

SOME STRUCTURAL ELEMENTS AND THEIR RELATION TO - Busch, Stephen E. AND GENERAL CHARACTERISTICS TWO RECENT RESEARCH STUDIES PROGRAMMED MUSIC INSTRUCTION: (p. 40/1964)

PURE RESEARCH IN MUSIC EDUCATION -- John, Robert W.

(p. 5/1964)

REACHING A FAMILIARITY WITH THE INSTRUMENTS OF THE ORCHESTRA IN THE ELEMENTARY SCHOOL — Hockenberry E'Rena. (p. 37/1964)

RECENT RESEARCH ON CLARINET REEDS AND MOUTHPIECES Martyn, Charles F. (p. 22/1964)

RECOMMENDATIONS FOR INCREASED EFFECTIVENESS IN THE MEMORIZATION OF MUSIC — Weerts, Richard K. (p. 26/

RESEARCH: AN AID IN PLANNING FOR MUSIC READING EX-PERIENCES -- Pflederer, Marilyn. (p. 1/1966)

RHYTHM AND MUSIC EXPERIENCES FOR THE HEARING-HANDICAPPED CHILD — Kapla, Peggy S. (p. 30/1964)

A SERMON ON MUSIC FROM 1771 — Sandford, Jordon. (p. 4/1968) SOME OBSERVATIONS RELATIVE TO RESEARCH IN MUSIC EDU-CATION - Phelps, Roger P. (p. 5/1965)

By Margaret K. Farish. (p. 9/1966) STRING MUSIC IN PRINT. by Parsons, John N. \*A STUDY OF INSTRUMENTAL MUSIC DROPOUTS OF THE MOLINE By G. James Caset, Jr. Rev. (ILLINOIS) SCHOOLS. By G. James by Juhas, Earl A. (p. 42/1965)

STUDY OF THE EXTENT TO WHICH MUSIC COURSES FULFILL THE ENTRANCE REQUIREMENTS OF COLORADO COLLEGES AND UNIVERSITIES — Lehman, Paul R. (p. 35/1964)

SUMMARY OF CURRENT DEVELOPMENT IN MUSICAL ACOUSTICS - Harbold, Mary L. (p. 13/1965) ⋖

- SUPPORT FOR RESEARCH IN MUSIC EDUCATION IN COLORADO Lehman, Paul R. (p. 29/1965)
- \*A SURVEY AND EVALUATION OF CURRENT METHODS, TECHNIQUES, AND CONTENT IN VOCAL PERFORMING GROUPS IN SELECTED SECONDARY SCHOOLS IN WYOMING. By Alice Mary Ramer. Rev. by Campbell, Alex B. (p. 9/1968)
- THE TAPE RECORDER EMPLOYED IN THE DEVELOPMENT OF CHIL-DREN'S SINGING: AN EXPERIMENTAL STUDY. Sears, Margaret F. (p. 8/1965)

TEACHING MUSIC — Stewart, Frank Graham. (p. 5/1968)
TRADITION IN TRANSITION — McCarthy, Kevin J. (p. 19/19/3)

#### SUBJECT

#### ACOUSTICS

Harbold, Mary L., A Summary of Current Developments in Musical Acoustics. (p. 13/1965)

### **AESTHETICS**

Stewart, Frank Graham, Teaching Music. (p. 5/1968)

# CATALOGING AND CLASSIFICATION

- Busch, Stephen E., <u>Doctoral Dissertations in Music and Music Education, 1957-1963.</u> Compiled by Roderick D. Gordon, 40/65
- \*Childs, Gordon B., Baroque String Chamber Works Incorporating Techniques Essential to the Development of Performing Ability by Violinists. By Roscoe M. Booth. (p. 45/1965)

Parsons, John N., <u>String Music in Print</u>. By Margaret K. Farish. (p. 9/1966)

16

្នា

## CONTINUING EDUCATION

Walker, Cheryl-Lynn, Colorado's Community Orchestras. (p. 28/1964)

## CURRICULUM DEVELOPMENT

- Bowie, Gordon, Choice of Music and Teaching of Musical Knowledge in the Band Rehearsal. (p. 14/1973)
  - Campbell, Alex B., Music Curriculum Guides. By Harold W. Arberg. (p. 38/1965)
    - Pflederer, Marilyn, Research: An Aid in Planning for Music Reading Experiences. (p. 1/1966)
      - Stewart, Frank Graham, Teaching Music. (p. 5/1968)
- Zimmerman, Alex H., Music in Our Schools: A Search for Improvement. Prepared by Claude V. Palisca. (p. 32/1965)
- Zimmerman, Marilyn Pflederer, Musical Concept Formation: A Review of the Research Literature. (p. 1/1968)

# DEVELOPMENT, MATURATION

Zimmerman, Marilyn Pflederer, Musical Concept Formation: A Review of the Research Literature. (p. 1/1968)

## ELEMENTARY EDUCATION

- \*Campbell, Jay J., A Comparison of Two Distributed Instructional Periods in the Teaching of Beginning Instrumental Music Students. By Carroll A. Childs. (p. 52/1964)
- Hockenberry, E'Rena, Teaching a Familiarity with the Instruments of the Orchestra in the Elementary School. (p. 37/1964)

- \*Monsour, Sally, The Music of the Sioux Indian of the Rosebud Reservation in South Dakota and Its Use in the Elementary School. By James William Jurrens. (p. 9/1968)
- \*Reeves, William N., A Comparative Study of Certain Aspects of Music Instruction in Selected Elementary Schools of the United States and Great Britain. By Maynard C. Anderson. (p. 50/1964)
  - Sears, Margaret F., The Tape Recorder Employed in the Development of Children's Singing: An Experimental Study. (p. 8/1965)
- Wilcoxson, Ida, Faster Learning Through Singable Materials. (p. 26/1964)

#### **ETHNOLOGY**

Kearns, William, Hillbilly Music as a Tool. (p. 1/1973)

- \*Monsour, Sally, The Music of the Sioux Indian of the Rosebud Reservation in South Dakota and Its Use in the Elementary School. By James William Jurrens. (p. 9/1968)
- Ofei, Patrick, Music in West Africa. (p. 22/1973)

# EVALUATION, MEASUREMENT

- King, Ralph, <u>Measurement and Evaluation in Music</u>. By William E. Mhybrew. (p. 36/1965)
- Pellerin, Nina S., The Measurement of Music Achievement with a Unique Evaluative Instrument. (p. 7/1964)
  - \*Reeves, William N., A Comparative Study of Certain Aspects of Music Instruction in Selected Elementary Schools of the United States and Great Britain. By Maynard C. Anderson. (p. 50/1964)

## HIGHER EDUCATION

- Busch, Stephen E., Doctoral Dissertations in Music and Music Education, 1957-1963. Compiled by Roderick D. Gordon. (p. 40/1965)
- \*Lehman, Paul, An Investigation of Music Education at the University of Colorado Including a Follow-up of Graduates, by Clair Woodward. (p. 52/1964)
- Sandford, Gordon, Higher Education: How the Office of Education Assists College Students and Colleges. (p. 8/1968)

#### **IISTORY**

- Bostrom, Marvin J., Instruction to the Teacher in Schuster's Clavierstunden Fur Kinder, 1799-1800. (p. 18/1964)
- Klausman, Grant J., A Brief History of the National School Music Contests. (p. 5/1966)
- Lehman, Paul R., The Contributions of Guido D'Arezzo to Music Education. (p. 3/1966)
- \*Reeves, William N., Kansas Music Educators Association: The Establishment, Development, and Philosophy of Music Education. By Leland D. Crapson. (p. 42/1965)
- Sandford, Gordon, A Sermon on Music from 1771. (p. 4/1968)
- Wilson, Kay, History of Selected Songs of the American Civil War. (p. 23/1965)

## INSTRUCTIONAL MATERIAL

- Bowie, Gordon, Choice of Music and Teaching of Musical Knowledge in the Band Rehearsal. (p. 14/1973)
- Campbell, Alex B., Music Curriculum Guides. By Harold W. Arberg. (p. 38/1965)

19

## INSTRUMENTAL MUSIC

\*Campbell, Jay J., A Comparison of Two Distributed Instructional Periods in the Teaching of Beginning Instrumental Music Students. By Caroll A. Childs. (p. 52/1964)

\*Childs, Gordon B., Baroque String Chamber Works Incorporating Techniques Essential to the Development of Performing Ability by Violinists. By Roscoe M. Booth. (p. 45/1965)

\*Hammer, Harry, A Comparison of Three Methods for Improving Intonation in the Performance of Instrumental Music. By William L. Graves, Jr. (p. 49/1964)

\*Juhas, Earl A., A Study of Instrumental Music Drop-outs of the Moline (Illinois) Schools. By G. James Casey, Jr. (p. 43/1965)

\*Lenichelk, E., Ed., The Adaptation of Selected American Folk Tunes for Solo Trumpet with Instrumental Accompaniment. By Lawrence J. Meyer. (p. 47/1965)

\*Levy, Ralph W., A Critical Analysis of the Minnesota District and State Band Contest-Festival System with Implications for Its Improvement. By Harold E. Krueger. (p. 41/1965) Martyn, Charles F., Recent Research on Clarinet Reeds and Mouthpieces. (p. 22/1964)

Parsons, John N., <u>String Music in Print</u>. By Margaret K. Farish. (p. <u>9/1966)</u>

Seay, Albert, Musical Instruments: A Comprehensive Dictionary. By Sibyl Marcuse. (p. 33/1965)

\*Smith, Jerry N., The Designation of the Appropriate Grade Level for Beginning Instrumental Study. By E. Duane Strachan. (p. 46/1965)

# METHODS AND PHILOSOPHIES OF RESEARCH

Clendenin, William R., Music Reference and Research Materials. Compiled by Vincent Duckles. (p. 35/ George, Marvin, Music Research Handbook. By Hazel B. Morgan and Clifton A. Burmeister. (p. 39/1965) Greene, Allen W., An Introduction to Library Resources for Music Research. By Keith E. Mixter. (p. 37/1965)

John, Robert W., Pure Research in Music Education. (p. 5/1964) Lehman, Paul R., Support for Research in Music Education in Colorado. (p. 29/1965)

McCarthy, Kevin J., Tradition in Transition. (p. 19/1973)

Nisbett, Robert F., Office of Education Support for Research and Related Activities. (p. 9/1968)

Phelps, Roger P., Some Observations Relative to Research in Music Education. (p. 5/1965)

### NEW MEDIA

Sears, Margaret F., The Tape Recorder Employed in the Development of Children's Singing: An Experimental Study. (p. 8/1965)

## PSYCHOLOGICAL STUDIES

Campbell, Alex B., A Survey and Evaluation of Current Methods, Techniques, and Content in Vocal Performing Groups in Selected Secondary Schools in Wyoming. By Alice Mary Ramer. (p. 9/1968)

\*Juhas, Earl A., A Study of Instrumental Music Drop-Outs of the Moline (Illinois) Schools. By G. James Casey, Jr. (p. 43/1965)

Lehman, Paul R., A Study of the Extent to Which Music Courses Fulfill the Entrance Requirements of Colorado Colleges and Universities. (p. 35/1964)

\*Levy, Ralph W., A Critical Analysis of the Minnesota District and State Band Contest-Festival System with Implications for Its Improvement. By Harold E. Krueger. (p. 41/1965)

\*Smith, Jerry N., The Designation of the Appropriate Grade Level for Beginning Instrumental Study. By E. Duane Strachan. (p. 46/1965)

Weerts, Richard K., Recommendations for Increased Effectiveness in the Memorization of Music. (p. 26/

## SPECIAL EDUCATION

Kapla, Peggy S., Rhythm and Music Experiences for the Hearing-Handicapped Child. (p. 30/1964)

### STATUS STUDIES

Fiftieth Anniversary Issue Bostrom, Marvin J., Contemporary Music in Europe: of the Musical Quarterly. (p. 9/1966 Comprehensive Survey.

Meyer, Leo, Music and Art in the Public Schools. NEA Research Monograph. (p. 34/1965)

Walker, Cheryl-Lynn, Colorado's Community Orchestras. (p. 28/1964)

### TEACHING METHODS

Schuster's Clavierstunden Fur Kinder, 1799-1800 (p. 18/1964) Bostrom, Marvin J., Instructions to the Teacher in

Busch, Stephen E., Programmed Music Instruction: Some Structural Elements and General Characteristics and Their Relation to Two Recent Research Studies,

Methods, Techniques, and Content in Vocal Performing \*Campbell, Alex B., A Survey and Evaluation of Current Groups in Selected Secondary Schools in Wyoming. Alice Mary Ramer. (p. 9/1968)

Hockenberry, E'Rena, Teaching a Familiarity with the Instruments of the Orchestra in the Elementary School. (p. 37/1964)

### VOCAL/CHORAL

\*Campbell, Alex B., A Survey and Evaluation of Current Methods, Techniques, and Content in Vocal Performing Groups in Selected Secondary Schools in Wyoming. Alice Mary Ramer. (p. 9/1968)

Sears, Margaret F., The Tape Recorder Employed in the Development of Children's Singing: An Experimental Study. (p. 9/1965)

Wilcoxson, Ida, Faster Learning Through Singable Materials. (p. 26/1964)

Wilson, Kay, History of Selected Songs of the American Civil War. (p. 23/1965)

INDEX OF ARTICLES APPEARING IN THE MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION	
1962-1976	-
TABLE OF CONTENTS	×
	ANDERSON, DON, Missour
AUTHUK	Action Research III 1966)
TITLE	ANDEDSON DON' Progress
SUBJECT	Project in the School
	ANDERSON, DONALD K., S.
Andigeral Studies	AUTRY, MOLLIE ROSE, A
tion	in the Development
taloging	
Development 5	BALL, ROSALYN H., The
y Education	the Junior High Cho
	BAIL, ROSALYN, An Ungr
Higher Education 60	the Elementary Gene
	Schools. Dissertat
Instructional Materials 63	BEAN SHIRLEY ANN, The
Music Studies	Refinement of a Sou
ental	Abstract. (p. 107,
	RERGER MICHAEL E., LO
•	Edition. Disserta
	MUS E MUS
Discrimination Doncontion	Owned by College S
• • • • • • • • • • • • • • • • • • • •	Misic Experiences.
Philosophies	
Secondary Education 71	the Selections and
Special Education 72	Instruments
Status Studies	BLECKSCHMIDT, ALFRED
Teacher Education 73	for Developing Hig
Teaching Methods 73	(Band, Orchestra,
Vocal/Choral 75	an Academic Discip

tudents with Varying High School Dissertation Abstract. (p. 53/1962) Study of the Effect of Hand Signs of Sight Singing Skills. Disserta-114/1976) eral Music Curriculum in the Public tion Abstract. (p. 106/1973) ical Taste as Indicated by Records Integration of Music Learnings in tral Class. (p. 80/1970) aded Guide to the Organization of Chorus) into Courses Representing oline. (p. 62/1968) Au Music Educators Association and 2/ W., Pilot Experimental Programs yh School Ensemble Music Classes urvey of Musical Style for Band. odonic Treatment as a Factor in s Report on the Action Research ols of Missouri. (p. 3/1967) Derivation and Early History of 88/1972) ithern Tunebook. Dissertation eopold Mozart's Partita in D: tion Abstract. (p. 78/1975) Performance of Brass Musical Missouri Harmony 1812-1858: the Schools of Missouri. (p. 31/1973) (1973)

24

- BLUM, MARTIN, Black Music: Pathmaker of the Harlem Renaissance. (p. 72/1974)
- BODANSKE, WILLIAM H., Selected Conditions Associated with the Mobility of Missouri Secondary Public Schools. (p. 29/1979)
- BOUGHTON, HARRISON C., Katherine K. Davis: Life and Work. (p. 84/1974)
  - Work. (p. 84/19/4) BOWLING, DONALD, Research and Progress in the Allied Arts. (p. 37/1962)
- BOYER, RENE, The Influence of Gestalt Psychology on Elementary Music Education and Pedagogy — Proposals for a Curriculum (K-6). (p. 6/1976)
  - BRAUN, WILLIAM R., The Uses of Pre-Existent Music in the Twentieth Century. Dissertation Abstract. (p. 79/1975)
- BROOKS, TILFORD, The Black Musician in American Society. (p. 18/1970)
- BROOKS, TILFORD, A Historical Study of Black Music and Selected Twentieth Century Black Composers and Their Role in American Society. Dissertation Abstract. (p. 115/1972)
- BROWN, ELWOOD H., A Study of the Application of Creativity in the Teaching of Secondary School Music. Dissertation Abstract. (p. 112/1971)
  - BULGIN, LANSING, Music Student Teaching Practices in Missouri Colleges and Universities: A Preliminary Report. (p. 15/1964)
- BURGSTAHLER, ELTON, Factors Influencing the Choice and Pursuance of a Career in Music Education: A Survey and Case Approach. Dissertation Abstract. (p. 53/1967)
- BURK, JAMES M., The Development of a Methodology for Transcribing the Organ Music of Bach for Band. (p. 85/1971)

- BURNAU, JOHN MARCUS, Factors Concerning the Production of the Musical in the High School. Dissertation Abstract. (p. 84/1969)
  - BURMEISTER, Clifton A., Directions for Improvement of Research in Music Education. (p. 5/1963)
- BURTON, JAMES WILLIAM, A Comparison of Two Methods for Teaching Musical Form to Seventh Grade General Music Classes. (p. 29/1974)
- BURTON, JAMES WILLIAM, A Comparison of Two Methods for Teaching Musical Form to Seventh Grade General Music Classes. Dissertation Abstract. (p. 81/1975)
  - CADY, HENRY, Research in Music Education: Functions and Constraints. (p. 4/1970)
    - CASEY, ROBERT LOWELL, Serial Compositions for Band. Dissertation Abstract. (p. 115/1971)
- CEREGHINO, ROSEMARY CARNIGHAN, The Esthetic Theories of John Dewey and Their Effect on Music Education Practices of Today. (p. 47/1976)
- COLEMAN, RUSSELL, Wind Instruments in the Seventeenth Century. (p. 5/1969)
- COLLINS, THOMAS W., The Instrumental Music of Paul Pisk. Dissertation Abstract. (p. 113/1972)
  - COOK, BARBARA, Structural Learning and Music Reading. (p. 15/1965)
- COOK, JUDITH KAY, The Effect of Model Instruction on Teaching the Musical Concept "Phrase" to Second Year Band Students. Dissertation Abstract. (p. 108/1971)
  - CRAMER, EUGENE C., A Selected List of Art Songs in French. (p. 39/1970)
- CURTIS, STEPHEN MILNE, Mellange de Chansons: Transcribed and Edited, with Commentary. Dissertation Abstract. (p. 87/1975)

DOHERTY, CHARLES R., Twentieth Century Woodwind Quintet Music of the United States. Dissertation Abstract. (p. 108/1972) DORN, STEPHEN, Sixteenth Century Polyphony. (p. 56/1963)

DUNCAN, CURTIS D., General Music: A Music Educators Proving Ground. (p. 51/1975)

ELIASON, ROBERT E., Brass Instrument Key and Valve Mechanisms made in America before 1875. Dissertation Abstract. (p. 81/1969) ELLINGSON, DONALD, Automated Teaching System for Functional Piano Skills. (p. 7/1966)

FAULKNER, JEANE GISSENAAS, Taste, Music and Education. (p. 84/1967)

FELDT, JAMES VON, Music Teacher Classroom Technique Versus Computer-Assisted Instruction. Dissertation Abstract. (p. 110/1972)

GAGNEPAIN, JOAN THIES, Music Education and the Blind. (p. 39/1971)

GARCIA, RICHARD, A Study of the Effectiveness of Music Lessons Presented Via Closed Circuit Television as Compared with Lessons Presented Directly in the Class Room. (p. 72/1966)

GARCIA, RICHARD O., Teaching Music Classes Through Closed-Circuit Television. (p. 28/1963)

GAVER, WILLIAM D., Humanities, Integrated Arts and Aesthetic Education. (p. 95/1971)

GEDERS, SISTER ALPHONSE MARIE C.PP.S., A Method of Teaching Elementary Vocal Music Reading Based on Principles of Fixed Pitch. (p. 56/1962)

GEPHARDT, DONALD, The Significance of the Wind Ensemble in American Music Education. (p. 58/1973)

HAGAN, SISTER TOBIAS, Personalized Instruction: Some Reasons Why. (p. 11/1974) HAGAN, SISTER MARY TOBIAS, The Structural Method of Teaching Music Listening Grades K-9. Dissertation Abstract. (p. 105/1973)

HAGAN, SISTER M. TOBIAS, The Structural Organization of the Subject Matter of Music for Elementary and Junior High Curricula. (p. 64/1972)

HAMILTON, JAMES C., Leith Stevens: A Critical Analysis of His Works. Dissertation Abstract. (p. 120/1976)

HANSFORD, CHARLES, An Appraisal of Group Singing of Sixth Graders, in Twenty-Five Elementary Schools, in a Midwestern City of One Hundred Thousand. (p. 42/1965) HARRIS, CARL GORDON, JR., A Study of Characteristic Stylistic Trends Found in the Choral Works of a Selected Group of Afro-American Composers and Arrangers. Dissertation Abstract. (p. 114/1972)

HEADLEY, ERIN, Instruction in the Music Conservatories of St. Louis 1870-1930. (p. 43/1974)

HEGSTAD, JOSEPH, A Study of Interviewing Practices and Techniques Utilized in the Screening of Prospective Music Personnel in Departments of Music in Institutions of Higher Education. Dissertation Abstract. (p. 110/1971)

HILTON, LEWIS B., Individualized Instruction for General Music Classes Involving the Use of Slides Projected in Synchronization with Prerecorded Tape. (p. 49/1968)

HOFFER, CHARLES R., An Exploratory Study in a Use of the Violin and Recorder as Teaching Tools in Elementary School Music Classes. (p. 36/1965)

HUMMEL, DONALD AUSTIN, A Selected and Annotated Bibliography of Original Works for Trombone Trio. Dissertation Abstract. (p. 119/1976)

HUNT, MICHAEL F., Inter-Subject Involvement. (p. 76/ 1973)

HUTCHESON, ROBERT J., JR., Programmed Instruction and Music Education. (p. 9/1967)

JACOBI(Y), HUGH WILLIAM, American Composers Affiliated with American Colleges and Universities: Biographical Sketches, Their Productivity, Professional Status, Performance of Works, and Attitudes Towards University Patronage. Dissertation Abstract. (p. 82/1974)

JACKSON, JOHN PAUL, Il Terzo Libro Delle Divine Lodi Musicali di Gio. Battista Riccio. An Urtext Edition. Dissertation Abstract. (p. 88/1975)

JETTER, JUNE THOMSEN, An Evaluation of the AVII Model: A Systematic Approach to Aural-Visual Identification Instruction in Music for Young Children. Dissertation Abstract. (p. 80/1974)

JOHNSON, M. ORVILLE, Music and Media. (p. 97/1973)
JOHNSON, M. ORVILLE, The Philosophies and Attitudes
of Selected Music Teachers Toward Music Education.
(p. 63/1963)

JOHNSON, M. ORVILLE, A Study of the Ratings Received by Missouri High Schools Participating in the District Music Festivals from 1959-1965. (p. 56/1966)

JOHNSON, M. ORVILLE, A Study of the State Music Festivals in Missouri from 1959-1966. (p. 69/1967)

JOHNSON, ORLAND, Some Notes Concerning Performance of Renaissance Choral Music. (p. 34/1964)

JONES, ROBERT C., Ramos and Some Polemic Theorists of the Renaissance. (p. 40/1968)

JOSEPH, DON VERNE, The Evolution of Symphonic Instrumentation in the Nineteenth Century. (p. 60/1970)

KALIPOLITES, MARCUS, A Programmed Course in Acoustics in Music for Junior High School. Dissertation Abstract. (p. 112/1972) KAREL, LEON, Music Theory and Musicianship Teaching in Missouri Colleges and Universities: A Preliminary Report. (p. 10/1964) KAREL, LEON, The Senior Comprehensive Examination as a Means of Improving Music Theory Teaching in Missouri Colleges and Universities. (p. 5/1965)

KELLY, JOHN D., Three Keyboard Concertos of J. C. Monn (1726-1782). Dissertation Abstract. (p. 82/1975)

KITTO, ARMAND, Toward the Development of a Music Curriculum Based on the Maturation of the Child. (p. 5/ 1962)

KNIRR, WALTER H., Instrumental Music and the Cerebral Palsied Child. (p. 29/1962) KREMER, MARIE JOHANNA, The Organ in Symphonic Ensemble. Dissertation Abstract. (p. 89/1975)

LABUTA, JOSEPH A., Tension and Motion as Factors in Expressive Conducting. (p. 4/1967)

LACKEY, MYRA, Learning Centers in Elementary School Music. (p. 19/1974) LANG, JOHN, Musical Values and the String Class. (p. 11/1962)

LANGLEY, RICHARD DOUGLAS, Sonate Concertate in Stil Moderno by Dario Castello: A Transcription of Book I. Dissertation Abstract. (p. 90/1975) LATHOM, WANDA, A Study of Musical Achievement of Childres in an Economically Depressed Area. (p. 82/1972)

**हरी** 

- Study of Placement in Music History and Music Theory in Missouri Institutions of Higher Educa-LEBLANC, ALBERT AND HELEN LEBLANC, CEMREL, INC., A (p. 31/1975) tion.
- LEE, C. LORAN, Developing Patterns of the Undergraduate Music Education Curriculum in the United States. Dissertation Abstract. (p. 83/1966)
- LOEWE, DON, Sir Carl Busch: His Life and Work as a Teacher, Conductor, and Composer. (p. 102/1972)
- Humanities as Related to Interdisciplinary Humanities Programs in Selected Colleges of the United LOWERY, OLIN DORN, The National Endowment for the States. Dissertation Abstract. (p. 83/1975)
- Criticism and Principles of Baroque in the Arts. Dissertation Abstract. (p. 87/1969) LUEHRMAN, RICHARD A., A Study of the Evolution of
- MARSHALL, SHELLEY M., Teaching Aural Skills Without Visual Aids: A Study Using Sighted and Non-Sighted Children. Thesis Abstract. (p. 122/1976)
- MARTIN, RAYMOND E., Eleven Selected Woodwind Concertos of Johann Melchoir Molter. Dissertation Abstract. (p. 108/1973)
- Potential Generated by the Human Brain. (p. 49/1964) Three Contrasting Types of Music on the Electric McCURRY, F. BION, An Investigation of the Effect of
- McCURRY, F. BION, Progress Report on the Action Research Project in the Schools of Missouri. (p. 4/1968)
- MIDDLETON, JAMES A., A Matrix for Instrumental Competencies. (p. 40/1975)
- MILAK, JOHN, An Application of Certain Learning Theories to the Teaching of Musical Rhythm. (p. 49/1969)

- on the Effects of Young Audience Concerts and a Related Curriculum on the Cognitive and Affective Development of Elementary School Children. (p. 5/ MILAK, JOHN, The Parker Road Project: An Experiment
- MILAK, MELBA S., Contemporary Concepts of Career Education in Music and Their Relationship to John Dewey. (p. 54/1974)
- 1700 to the Present. Dissertation Abstract. (p. 91/ MILLER, ROBERT MELVIN, The Concerto and Related Works for Low Brass: A Catalog of Compositions from c. 1975)
- MORIE, WAYNE, Principal Instrumental Forms of the Baroque Era. (p. 47/1962)
- MORRILL, DEXTER, Report on the Ford Foundation Composer Project in University City. (p. 48/1963)
- A Test Case for Computer-Aided Analysis and Synthesis of Musical Style. Dissertation Abstract. NELSON, GARY LEE, Anton Webern's Five Canons, Opus 16: (p. 93/1975)
- Metropolitan St. Louis Area as Reflected in the Songs and Folk Songs of Its European Ethnic Groups: A Collection of Songs and Folk Songs Appropriate for Use in Elementary and Junior High Schools. Disserta-NEWANDER, MARY CLARICE, The Cultural Heritage of the tion Abstract. (p. 113/1976)
- NICHOLSON, JOE, The Development and Use of the Renaissance Trombone. (p. 58/1967)
- High School Seniors of the Musical Learnings Stated in the Music Curriculum Guides Published by the Mis-OAKLEY, DAVID L., The Cumulative Attainment by Missouri souri State Department of Education. (p. 45/1972)

- O'BANNON, CHESTER TROY, A Study in Developing an Artistic Interpretation of the Song. Dissertation Abstract. (p. 80/1969)
- OBERDIN, HELEN, The Use of Notated Examples in the Fifth Grade Music Appreciation Class. (p. 35/1968)
- OLSEN, ANGIE, The Slow Learner in the High School General Music Class. (p. 21/1962)
- OZIPKO, JERRY A., A Summary of the Evolution and Development of the Cadenza in the Violin Repertory Through Use of Examples. (p. 92/1970)
- PETERSON, JESSE LAURENCE, Music Departments of Colleges or Universities and Public School Interrelation-ships. Dissertation Abstract. (p. 114/1971)
- PIERCE, YVETTE B., Music Reading. (p. 17/1968)
- POSEY, PHILLIP C., Instruments and Voices in Contemporary Christian Worship. Dissertation Abstract. (p. 83, 1974)
- POWELL, IRA CHESLEY, A Study of the Relationship of Singing Accuracy to the Pitch-Making Abilities of Eighty-One Subjects. Dissertation Abstract. (p. 107/1970)
- PRANTE, WILLIAM, Haydn, Music and Literature. (p. 45/ 1964)
- PRICE, JEFFREY KEITH, A Study of Selected Twentieth-Century Compositions for Heterogeneous Brass Ensembles and Organ by United States Composers. Dissertation Abstract. (p. 117/1976)
- RALSTON, JACK L., A Century and a Half of Missouri Music. (p. 4/1973)
- RICHARDS, WILLIAM H., Trends in Piano Class Instruction 1815-1962. (p. 50/1962)

- RINEHART, ARTHUR, The Factors Present in the Transitional Musical Vocabulary of Alexander Nikolayevitch Scriabin Which Suggest Later Compositional Techniques: An Analysis of the Composer's Fourth, Fifth and Sixth Piano Sonatas. Dissertation Abstract. (p. 84/1975)
- RODABAUGH, PAUL D., Improved Teaching Through the Use of the Videotaperecorder. (p. 67/1971)
- ROECHLE, CHARLES A., Notes on Musical Taste. (p. 5/1968)
- ROLLINS, KAREN DENISE, Music in Open Education: Its Relationship to Individualization Through the Use of Learning Centers with Emphasis on Elementary Education. (p. 14/1975)
- ROSENBERG, GLORIA HAYES, Humanism and the Whole Note. (p. 5/1975)
- ROUSSEAU, EUGENE E., Bases for the Appearance of Musical Instruments in Visual Works of Art. (p. 25/1964)
  - RUEB, PHYLLIS, The Emergence of the Public Concert. (p. 23/1969)
- SCHULTZ, KENNETH, The French Horn, A Right-Handed Instrument. (p. 23/1965)
- SHORMAKER, JOHN, A Selected and Annotated Listing of Twentieth Century Ensembles Published for Three or More Heterogeneous Brass Instruments. Dissertation Abstract. (p. 89/1969)
- SIEBERS, WILLIAM R., Contemporary Violin Fingering. Dissertation Abstract. (p. 108/1972)
  - STEPHENSON, JACK R., Research in Action: The Transfer of Research in Music and Music Education Into the Classroom. (p. 4/1971)
    - THOMPSON, BARBARA, Twentieth Century Music for Elementary School Children. (p. 12/1963)

ලා ආ

- TURPIN, DOUGLAS L., Programmed Instruction and Music Education. (p. 12/1971)
- TURPIN, DOUGLAS LEONARD, The Twentieth Century: A Secondary Teacher's Guide for the Introduction of Twentieth Century Music With Emphasis Upon American Composers. (p. 89/1973)
- URBAN, DARRELL, Gotfried Reiche, Notes on His Art, Life, Instruments and Music. (p. 14/1966)
- VALENZIANO, NICHOLAS J., Twenty-One Avant Garde Compositions for Clarinet Published Between 1964 and 1972: Notational Practices and Performance Techniques. Dissertation Abstract. (p. 110/1973)
- VAN ZEE, NORMA, Verbal-Descriptive and Performance Responses of Kindergarten Children to Selected Musical Stimuli and Terminology. (p. 4/1974)
- VENHOUSE, SISTER DOROTHY, Basic Method of Group Instruction for Beginning Church Organists. Dissertation Abstract. (p. 107/1971)
- VEREEN, WILLIAM N., A Study of Rehearsal Techniques for Symphonic Band. Dissertation Abstract. (p. 11/1971)
- WALKER, PEARL W., A Study in Improving the Interpretation of Selected Arias From Standard Operas. (p. 55/
- WARDENBURG, ROBERT, An Experiment in Programming Rudiments of Music for Fifth Grade Students Compared to Conventional Instructional Methods. (p. 68/1969)
  - WARNER, ROGER, A Design for Comprehensive Musicianship in the Senior High School Band Program. Dissertation Abstract. (p. 112/1976)
- WARNER, ROGER, A Study of the Relation Between the Objective and Subjective Measurement of the Quantitative Differences in Tone Quality Among Various Makes of Clarinets. (p. 36/1969)

- WEEDMAN, CHARLES H., Some Problems of Opera Production in the Small College and Selected Appropriate Repertoire. Dissertation Abstract. (p. 11/1973)
- WEITZ, LOWELL E., The Stage Band as Part of the High School Music Program. Dissertation Abstract. (p. 86/1969)
- WEXLER, KENNETH, The Degradation of the Blues. (p. 69/1975)
- WILLIS, JAMES D., A Study of Paul Hindemith's Use of the Trombone as Seen in Selected Chamber Compositions. Dissertation Abstract. (p. 112/1973)
- WILLMAN, FRED, A Brief Historical Study of the Singing Schools and Shape Notes and Implications for Music Education Today. (p. 91/1976)
- WURTZ, MARTHA H., Music for the Academically Talented High School Student. (p. 25/1962)
- WURTZ, MARTHA H., Music History Teaching in Missouri Colleges and Universities — A Preliminary Report. (p. 5/1964)
- YIK, STEPHEN, A Study of the Curriculum Materials Used in Music Classes in the Primary and Secondary Schools in Taiwan from 1950-1973. Dissertation Abstract. (p. 116/1976)
- ZIMMERMAN, MARILYN P., Characteristics of the Adolescent: Implications for the Listening Repertoire. (p. 84/1976)
- ZIMMERMAN, MARILYN P., Research in Music Education for Young Children. (p. 44/1975)

- AMERICAN COMPOSERS AFFILIATED WITH AMERICAN COLLEGES
  AND UNIVERSITIES: BIOGRAPHICAL SKETCHES, THEIR
  PRODUCTIVITY, PROFESSIONAL STATUS, PERFORMANCE OF
  WORKS, AND ATTITUDES TOWARDS UNIVERSITY PATRONAGE.
  Dissertation Abstract -- Jacobi(y), Hugh William.
  (p. 82/1974)
- AN APPLICATION OF CERTAIN LEARNING THEORIES TO THE TEACHING OF MUSICAL RHYTHM Hilak, John. (p. 49/1969)
- AN APPRAISAL OF GROUP SINGING OF SIXTH GRADERS, IN TWENTY-FIVE ELEMENTARY SCHOOLS, IN A MIDWESTERN CITY OF ONE HUNDRED THOUSAND Hansford, Charles. (p. 42/1965)
- ANTON WEBERN'S FIVE CANONS, OPUS 16: A TEST CASE FOR COMPUTER-AIDED ANALYSIS AND SYNTHESIS OF MUSICAL STYLE. Dissertation Abstract Nelson, Gary Lee. (p. 93/1975)
- AUTOMATED TEACHING SYSTEM FOR FUNCTIONAL PIANO SKILLS Ellingson, Donald. (p. 7/1966)
- BASES FOR THE APPEARANCE OF MUSICAL INSTRUMENT IN VISUAL WORKS OF ART Rousseau, Eugene E. (p. 25/1964)
- BLACK MUSIC: PATHMAKER OF THE HARLEM RENAISSANCE -- Blum, Martin. (p. 72/1974)
- THE BLACK MUSICIAN IN AMERICAN SOCIETY.— Brooks, Tilford. (p. 18/1970)
- BRASS INSTRUMENT KEY AND VALVE MECHANISMS MADE IN AMERICA BEFORE 1875. Dissertation Abstract — Eliason, Robert E. (p. 81/1969)
- A BRIEF HISTORICAL STUDY OF THE SINGING SCHOOLS AND SHAPE NOTES AND IMPLICATIONS FOR MUSIC EDUCATION TODAY -- Willman, Fred. (p. 91/1976)

- A CENTURY AND A HALF OF MISSOURI MUSIC Ralston, Jack L. (p. 4/1973)
- CHARACTERISTICS OF THE ADOLESCENT: IMPLICATIONS FOR THE LISTENING REPERTOIRE Zimmerman, Marilyn P. (p. 84/1976)
- A COMPARISON OF TWO METHODS FOR TEACHING MUSICAL FORM
  TO SEVENTH GRADE GENERAL MUSIC CLASSES Burton,
  James William. (p. 29/1974)
- A COMPARISON OF TWO METHODS FOR TEACHING MUSICAL FORM TO SEVENTH GRADE GENERAL MUSIC CLASSES. Disserta-tion Abstract Burton, James William. (p. 81/1975)
- THE CONCERTO AND RELATED WORKS FOR LOW BRASS: A CATA-LOG OF COMPOSITIONS FROM c. 1700 TO THE PRESENT. Dissertation Abstract Miller, Robert Melvin. (p. 91/1975)
- CONTEMPORARY CONCEPTS OF CAREER EDUCATION IN MUSIC AND THEIR RELATIONSHIP TO JOHN DEWEY -- Milak, Melba S. (p. 54/1974)
- CONTEMPORARY VIOLIN FINGERING. Dissertation Abstract -- Siebers, William F. (p. 108/1972)
- THE CULTURAL HERITAGE OF THE METROPOLITAN ST. LOUIS AREA AS REFLECTED IN THE SONGS AND FOLK SONGS OF ITS EURO-PEAN ETHNIC GROUPS: A COLLECTION OF SONGS AND FOLK SONGS APPROPRIATE FOR USE IN ELEMENTARY AND JUNIOR HIGH SCHOOLS. Dissertation Abstract -- Newander, Mary Clarice. (p. 113/1976)
- THE CUMULATIVE ATTAINMENT BY MISSOURI HIGH SCHOOL SENIORS OF THE MUSICAL LEARNINGS STATED IN THE MUSIC CURRICULUM GUIDES PUBLISHED BY THE MISSOURI STATE DEPARTMENT OF EDUCATION Oakley, David L. (p. 45/1972)
- THE DEGRADATION OF THE BLUES -- Wexler, Kenneth. (p. 69/1975)

1

- THE DERIVATION AND EARLY HISTORY OF THE SAXOPHONE -- Amedura, Richard. (p. 88/1972)
- A DESIGN FOR COMPREHENSIVE MUSICIANSHIP IN THE SENIOR HIGH SCHOOL BAND PROGRAM. Dissertation Abstract -- Warner, Roger. (p. 11/1976)
- DEVELOPING PATTERNS OF THE UNDERGRADUATE MUSIC EDUCA-TION CURRICULUM IN THE UNITED STATES — Lee, C. Loran. (p. 83/1966)
- THE DEVELOPMENT AND USE OF THE RENAISSANCE TROMBONE -- Nicholson, Joe. (p. 58/1967)
- DEVELOPMENT OF A METHODOLOGY FOR TRANSCRIBING THE ORGAN MUSIC OF BACH FOR BAND Burk, James M. (p. 85/1971)
- DIRECTIONS FOR IMPROVEMENT OF RESEARCH IN MUSIC EDUCA-TION -- Burmeister, Clifton A. (p. 5/1963)
- THE EFFECT OF MODEL INSTRUCTION ON TEACHING THE MUSICAL CONCEPT "PHRASE" TO SECOND YEAR BAND STUDENTS. Thesis Abstract Cook, Judith Kay. (p. 123/1976)
- ELEVEN SELECTED WOODWIND CONCERTOS OF JOHANN MELCHOIR MOLTER. Dissertation Abstract — Martin, Raymond E. (p. 108/1973)
- THE EMERGENCE OF THE PUBLIC CONCERT Rueb, Phyllis. (p. 23/1969)
- THE ESTHETIC THEORIES OF JOHN DEWEY AND THEIR EFFECT ON MUSIC EDUCATION PRACTICES OF TODAY Cereghino, Rosemary Carnighan. (p. 47/1976)
- AN EVALUATION OF THE AVII MODEL: A SYSTEMATIC APPROACH TO AURAL-VISUAL IDENTIFICATION INSTRUCTION IN MUSIC FOR YOUNG CHILDREN. Dissertation Abstract Jetter, June Thomsen. (p. 80/1974)
- THE EVOLUTION OF SYMPHONIC INSTRUMENTATION IN THE NINE-TEENTH CENTURY — Joseph, Don Verne. (p. 60/1970)

- AN EXPERIMENT IN PROGRAMMING RUDIMENTS OF MUSIC FOR FIFTH GRADE STUDENTS COMPARED TO CONVENTIONAL INSTRUCTIONAL METHODS -- Wardenburg, Robert. (p. 68/1969)
- AN EXPLORATORY STUDY IN A USE OF THE VIOLIN AND RECORDER AS TOOLS IN ELEMENTARY SCHOOL MUSIC CLASSES—Hoffer, Charles. (p. 36/1965)
- FACTORS CONCERNING THE PRODUCTION OF THE MUSICAL IN THE HIGH SCHOOL. Dissertation Abstract -- Burnau, John Marcus. (p. 84/1969)
- FACTORS INFLUENCING THE CHOICE AND PURSUANCE OF A CAREER IN MUSIC EDUCATION: A SURVEY AND CASE APPROACH. Doctoral Dissertation Burgstahler, Elton. (p. 53/1967)
- THE FACTORS PRESENT IN THE TRANSITIONAL MUSICAL VOCABU-LARY OF ALEXANDER NIKOLAYEVITCH SCRIABIN WHICH SUG-GEST LATER COMPOSITIONAL TECHNIQUES: AN ANALYSIS OF THE COMPOSER'S FOURTH, FIFTH, AND SIXTH PIANO SONA-TAS. Dissertation Abstract — Rinehart, Arthur. (p. 84/1975)
- THE FRENCH HORN, A RIGHT-HANDED INSTRUMENT Schultz, Kenneth. (p. 23/1965)
- GENERAL MUSIC: A MUSIC EDUCATORS PROVING GROUND Duncan, Curtis D. (p. 51/1975)
- GOTFRIED REICHE, NOTES ON HIS ART, LIFE, INSTRUMENT AND MUSIC Urban, Darrell. (p. 14/1966)
- HAYDN, MUSIC AND LITERATURE -- Prante, William. (p. 45/1964)
- A HISTORICAL STUDY OF BLACK MUSIC AND SELECTED TWENTIETH CENTURY BLACK COMPOSERS AND THEIR ROLE IN AMERICAN SOCIETY. Dissertation Abstract -- Brooks, Tilford. (p. 115/1972)

- HUMANISM AND THE WHOLE NOTE -- Rosenberg, Glorai Hayes.
- HUMANITIES, INTEGRATED ARTS AND AESTHETIC EDUCATION --- Gaver, William D. (p. 95/1971)
- Dissertation IL TERZO LIBRO DELLE DIVINE LODI MUSICALI DE GIO. Abstract -- Jackson, John Paul. (p. 88/1975) BATTISTA RICCIO. AN URTEXT EDITION.
- IMPROVED TEACHING THROUGH THE USE OF THE VIDEOTAPE-RECORDER — Rodabaugh, Paul D. (p. 67/1971)
- INDIVIDUALIZED INSTRUCTION FOR GENERAL MUSIC CLASSES INVOLVING THE USE OF SLIDES PROJECTED IN SYNCHRONI-ZATION WITH PRERECORDED TAPE — Hilton, Lewis B. (p. 49/1968)
- THE INFLUENCE OF GESTALT PSYCHOLOGY ON ELEMENTARY MUSIC EDUCATION AND PEDAGOGY -- PROPOSALS FOR A CURRICULUM (K-6) - Boyer, Rene. (p. 6/1976)
  - INSTRUCTION IN THE MUSIC CONSERVATORIES OF ST. LOUIS 1870-1930 Headley, Erin. (p. 43/1974)
- INSTRUMENTAL MUSIC AND CEREBRAL PALSIED CHILD Knirr, Walter H. (p. 29/1962)
- THE INSTRUMENTAL MUSIC OF PAUL PISK. Dissertation Abstract Collins, Thomas W. (p. 113/1972)
- (p. 83/1974) INSTRUMENTS AND VOICES IN CONTEMPORARY CHRISTIAN WORSHIP. Dissertation Abstract -- Posey, Phillip C. (p. 83/197
  - THE INTEGRATION OF MUSIC LEARNINGS IN THE JUNIOR HIGH CHORAL CLASS Ball, Rosalyn H. (p. 80/1970)
    - INTER-SUBJECT INVOLVEMENT Hunt, Michael F. (p. 76/
- AN INVESTIGATION OF THE EFFECT OF THREE CONTRASTING TYPES OF MUSIC ON THE ELECTRIC POTENTIAL GENERATED BY THE HUMAN BRAIN -- McCurry, F. Bion. (p. 49/1964)

- AN INVESTIGATION OF THE VIBRATING CLARINET REED UTILIZstract -- Coppenbarger, Roger Dean. (p. 108/1971) Dissertation Ab-ING HIGH SPEED CINEMATOGRAPHY.
- KATHERINE K. DAVIS: LIFE AND WORK -- Boughton, Harri-(p. 84/1974)
  - LEARNING CENTERS IN ELEMENTARY SCHOOL MUSIC -- Lackey, Myra. (p. 19/1974)
- Dissertation Abstract -- Hamilton, James C. (p. 120/ LEITH STEVENS: A CRITICAL ANALYSIS OF HIS WORKS.
- LEOPOLD MOZART'S PARTITA IN D: AN EDITION. Dissert tion Abstract -- Berger, Michael E. (p. 78/1975)
- A MATRIX FOR INSTRUMENTAL COMPETENCIES -- Middleton, James A. (p. 40/1975)
- MELLANGE DE CHANSONS: TRANSCRIBED AND EDITED, WITH COMMENTARY. Dissertation Abstract -- Curtis, Stephen Milne. (p. 87/1975)
- METHOD OF TEACHING ELEMENTARY VOCAL MUSIC READING BASED ON PRINCIPLES OF FIXED PITCH Geders, Sister Alphonse Marie C. PP. S. (p. 56/1962)
- THE MISSOURI HARMONY 1812-1858: THE REFINEMENT OF A SOUTHERN TUNEBOOK. Dissertation Abstract Bean, Shirley Ann. (p. 107/1973)
- MISSOURI MUSIC EDUCATORS ASSOCIATION AND ACTION RESEARCH IN THE SCHOOLS OF MISSOURI Anderson, Don. (p. 5/1966)
- MUSIC AND MEDIA Johnson, M. Orville. (p. 97/1973)
- MUSIC DEPARTMENTS OF COLLEGES OR UNIVERSITIES AND PUBLIC SCHOOLS INTERRELATIONSHIPS. Dissertation Abstracts -- Peterson, Jesse Laurence. (p. 114/1971)
- MUSIC EDUCATION AND THE BLIND Gagnepain, Joan Thies. (p. 39/1971)

MUSIC FOR THE ACADEMICALLY TALENTED HIGH SCHOOL STUDENT — Wurtz, Martha H. (p. 25/1962)

MUSIC HISTORY TEACHING IN MISSOURI COLLEGES AND UNIVERSI-TIES - A PRELIMINARY REPORT - Wurtz, Martha H. (p. 5/1964)

MUSIC IN OPEN EDUCATION: ITS RELATIONSHIP TO INDIVIDUALI-ZATION THROUGH THE USE OF LEARNING CENTERS WITH EM-PHASIS ON ELEMENTARY EDUCATION -- Rollins, Karen Denise. (p. 14/1975)

MUSIC READING - Pierce, Yvette B. (p. 17/1968)

MUSIC STUDENT TEACHING PRACTICES IN MISSOURI COLLEGES AND UNIVERSITIES: A PRELIMINARY REPORT — Bulgin, Lansing. (p. 15/1964)

MUSIC TEACHER CLASSROOM TECHNIQUE VERSUS COMPUTER-ASSISTED INSTRUCTION. Dissertation Abstract — Feldt, James Von. (p. 110/1972) MUSIC THEORY AND MUSICIANSHIP TEACHING IN MISSOURI COL-LEGES AND UNIVERSITIES: A PRELIMINARY REPORT — Karel, Leon. (p. 10/1964) MUSICAL TASTE AS INDICATED BY RECORDS OWNED BY COLLEGE STUDENTS WITH VARYING HIGH SCHOOL MUSIC EXPERIENCES—Birch, Thomas E. (p. 53/1962)

MUSICAL VALUES AND THE STRING CLASS — Lang, John. (p. 11/1962)

THE NATIONAL ENDOWMENT FOR THE HUMANITIES AS RELATED TO INTERDISCIPLINARY HUMANITIES PROGRAMS IN SELECTED COLLEGES OF THE UNITED STATES. Dissertation Abstract -- Lowery, Olin Dorn. (p. 83/1975)

NOTES ON MUSICAL TASTE - Roeckle, Charles A. (p. 5/1968)

THE ORGAN IN SYMPHONIC ENSEMBLE. Dissertation Abstract — Kremer, Marie Johanna. (p. 89/1975)

ORTHODONIC TREATMENT AS A FACTOR IN THE SELECTIONS AND PERFORMANCE OF BRASS MUSICAL INSTRUMENTS — Bjorstrom, Neil. (p. 31/1973)

THE PARKER ROAD PROJECT: AN EXPERIMENT ON THE EFFECTS OF YOUNG AUDIENCE CONCERTS AND A RELATED CURRICULUM ON THE COGNITIVE AND AFFECTIVE DEVELOPMENT OF ELEMENTARY SCHOOL CHILDREN — Milak, John. (p. 5/1972)

PERSONALIZED INSTRUCTION: SOME REASONS WHY — Hagan, Sister Tobias. (p. 11/1974)

THE PHILOSOPHIES AND ATTITUDES OF SELECTED MUSIC TEACHERS TOWARD MUSIC EDUCATION — Johnson, M. Orville. (p. 63/1963)

PILOT EXPERIMENTAL PROGRAMS FOR DEVELOPING HIGH SCHOOL ENSEMBLE MUSIC CLASSES (BAND, ORCHESTRA, CHORUS) INTO COURSES REPRESENTING AN ACADEMIC DISCIPLINE -- Blackschmidt, Alfred W. (p. 62/1968)

PRINCIPAL INSTRUMENTAL FORMS OF THE BAROQUE ERA -- Morie, Wayne. (p. 47/1962)

A PROGRAMMED COURSE IN ACOUSTICS IN MUSIC FOR JUNIOR HIGH SCHOOL. Dissertation Abstract — Klaipolites, Marcus. (p. 112/1972)

PROGRAMMED INSTRUCTION AND MUSIC EDUCATION — Turpin, Douglas L. (p. 12/1971)

PROGRESS REPORT ON THE ACTION RESEARCH PROJECT IN THE SCHOOLS OF MISSOURI — Anderson, Don. (p. 3/1967)

PROGRESS REPORT ON THE ACTION RESEARCH PROJECT IN THE SCHOOLS OF MISSOURI — McCurry, F. Bion. (p. 4/1968)

RAMOS AND SOME POLEMIC THEORISTS OF THE RENAISSANCE -- Jones, Robert G. (p. 40/1968)

REPORT ON THE FORD FOUNDATION COMPOSER PROJECT IN UNI-VERSITY CITY -- Morrill, Dexter. (p. 48/1963)

- RESEARCH AND PROGRESS IN THE ALLIED ARTS -- Bowling, Donald. (p. 37/1962)
- RESEARCH IN ACTION: THE TRANSFER OF RESEARCH IN MUSIC AND MUSIC EDUCATION INTO THE CLASSROOM Stephenson, Jack R. (p. 4/1971)
- RESEARCH IN MUSIC EDUCATION FOR YOUNG CHILDREN -- Zimmer-man, Marilyn P. (p. 44/1975)
- RESEARCH IN MUSIC EDUCATION: FUNCTIONS AND CONSTRAINTS—Cady, Henry. (p. 4/1970)
- SELECTED AND ANNOTATED BIBLIOGRAPHY OF ORIGINAL WORKS FOR TROMBONE TRIO. Dissertation Abstract Hummel, Donald Austin. (p. 119/1976)
- A SELECTED AND ANNOTATED LISTING OF TWENTIETH CENTURY ENSEMBLES PUBLISHED FOR THREE OR MORE HETEROGENEOUS BRASS INSTRUMENTS. Dissertation Abstracts Shoemaker, John A. (p. 89/1969)
- SELECTED CONDITIONS ASSOCIATED WITH THE MOBILITY OF MISSOURI SECONDARY PUBLIC SCHOOLS Bodanske, William H. (p. 29/1970)
- A SELECTED LIST OF ART SONGS IN FRENCH -- Cramer, Eugene C. (p. 39/1970)
- THE SENIOR COMPREHENSIVE EXAMINATION AS A MEANS OF IM-PROVING MUSIC THEORY TEACHING IN MISSOURI COLLEGES AND UNIVERSITIES Karel, Leon. (p. 5/1965)
- SERIAL COMPOSITIONS FOR BAND. Dissertation Abstract Casey, Robert Lowell. (p. 115/1971)
- THE SIGNIFICANCE OF THE WIND ENSEMBLE IN AMERICAN MUSIC EDUCATION Gephardt, Donald. (p. 58/1973)
- SIR CARL BUSCH: HIS LIFE AND WORK AS A TEACHER, CON-DUCTOR, AND COMPOSER Loewe, Don. (p. 102/1972)
- SIXTEENTH CENTURY POLYPHONY Dorn, Stephen. (p. 56/ 1963)

- THE SLOW LEARNER IN THE HIGH SCHOOL GENERAL MUSIC CLASS--01den, Angie. (p. 21/1962)
- SOME NOTES CONCERNING PERFORMANCE OF RENAISSANCE CHORAL MUSIC Johnson, Orland. (p. 34/1964)
- SOME PROBLEMS OF OPERA PRODUCTION IN THE SMALL COLLEGE AND SELECTED APPROPRIATE REPERTOIRE. Dissertation Abstract -- Weedman, Charles H. (p. 111/1973)
- SONATE CONCERTE IN STIL MODERNO BY DARIO CASTELLO: A TRANSCRIPTION OF BOOK I. Dissertation Abstract -- Langley, Richard Douglas. (p. 90/1975)
- THE STAGE BAND AS PART OF THE HIGH SCHOOL MUSIC PROGRAM. Dissertation Abstract -- Weitz, Lowell. (p. 86/1969)
- STRUCTURAL LEARNING AND MUSIC READING -- Cook, Barbara. (p. 15/1965)
- THE STRUCTURAL METHOD OF TEACHING MUSIC LISTENING GRADES K-9. Dissertation Abstract -- Hagan, Sister Mary Tobias. (p. 105/1973)
- THE STRUCTURAL ORGANIZATION OF THE SUBJECT MATTER OF MUSIC FOR ELEMENTARY AND JUNIOR HIGH CURRICULA -- Hagan, Sister M. Tobias. (p. 64/1972)
- A STUDY IN DEVELOPING AN ARTISTIC INTERPRETATION OF THE SONG. Dissertation Abstract -- O'Bannon, Chester Troy. (p. 80/1969)
- A STUDY IN IMPROVING THE INTERPRETATION OF SELECTED ARIAS FROM STANDARD OPERAS Walker, Pearl W. (p. 55/1962)
- A STUDY OF CHARACTERISTIC STYLISTIC TRENDS FOUND IN THE CHORAL WORKS OF A SELECTED GROUP OF AFRO-AMERICAN COMPOSERS AND ARRANGERS. Dissertation Abstract Harris, Carl Gordon, Jr. (p. 114/1972)
  - A STUDY OF INTERVIEWING PRACTICES AND TECHNIQUES UTI-LIZED IN THE SCREENING OF PROSPECTIVE MUSIC PERSON-NEL IN DEPARTMENTS OF MUSIC IN INSTITUTIONS OF

- Dissertation Abstract Hegstad, Joseph M. (p. 110/1971) HIGHER EDUCATION.
- STUDY OF MUSICAL ACHIEVEMENT OF CHILDREN IN AN ECONOMI-CALLY DEPRESSED AREA — Lathom, Wanda. (p. 82/1972)
  - STUDY OF PAUL HINDEMITH'S USE OF THE TROMBONE AS SEEN IN SELECTED CHAMBER COMPOSITIONS. Dissertation Abstract - Willis, James D. (p. 112/1973)
- STUDY OF PLACEMENT IN MUSIC HISTORY AND MUSIC THEORY LeBlanc, Albert and Helen LeBlanc, Cemrel, Inc. IN MISSOURI INSTITUTIONS OF HIGHER EDUCATION
- STUDY OF REHEARSAL TECHNIQUES FOR SYMPHONIC BAND. Dissertation Abstract Vereen, William N. (p. 111/
- STUDY OF SELECTED TWENTIETH-CENTURY COMPOSITIONS FOR HETEROGENEOUS BRASS ENSEMBLES AND ORGAN BY UNITED STATES COMPOSERS. Dissertation Abstract -- Price, Jeffrey Keith. (p. 117/1976)
- ING OF SECONDARY SCHOOL MUSIC. Dissertation Abstract Brown, Elwood H. (p. 112/1971) STUDY OF THE APPLICATION OF CREATIVITY IN THE TEACH-⋖
  - STUDY OF THE CURRICULUM MATERIALS USED IN MUSIC CLASSES IN THE PRIMARY AND SECONDARY SCHOOLS IN TAIWAN FROM 1950-1973. Dissertation Abstract -- Yik, Stephen. (p. 116/1976)
- STUDY OF THE EFFECT OF HAND SIGNS IN THE DEVELOPMENT OF SIGHT SINGING SKILLS. Dissertation Abstract --Dissertation Abstract -Aurty, Mollie Rose. (p. 114/1976)
- STUDY OF THE EFFECTIVENESS OF MUSIC LESSONS PRESENTED VIA CLOSED CIRCUIT TELEVISION AS COMPARED WITH LESSONS PRESENTED DIRECTLY IN THE CLASS ROOM Garcia, Richard. (p. 72/1956) ⋖

- Dissertation Abstract Luehr-STUDY OF THE EVOLUTION OF CRITICISM AND PRINCIPALS OF man, Richard A. (p. 87/1969) BAROQUE IN THE ARTS.
- STUDY OF THE RATING RECEIVED BY MISSOURI HIGH SCHOOLS PARTICIPATING IN THE DISTRICT MUSIC FESTIVALS FROM 1959-1965 — Johnson, M. Orville. (p. 56/1966) ⋖
- STUDY OF THE RELATION BETWEEN THE OBJECTIVE AND SUBJECTIVE DIFFERENCES IN TONE QUALITY AMONG VARIOUS MAKES OF CLARINETS Warner, Roger. (p. 39/1969)
- sertation Abstract -- Powell, Ira Chesley. (p. 107/ STUDY OF THE RELATIONSHIP OF SINGING ACCURACY TO THE PITCH-MAKING ABILITIES OF EIGHTY-ONE SUBJECTS.
- STUDY OF THE STATE MUSIC FESTIVALS IN MISSOURI FROM 1959-1966 -- Johnson, M. Orville. (p. 69/1967) ⋖
- SUMMARY OF THE EVOLUTION AND DEVELOPMENT OF THE CADENZA IN THE VIOLIN REPERTORY THROUGH USE OF EXAMPLES Ozipko, Jerry A. (p. 92/1970) ⋖
- SURVEY OF MUSICAL STYLE FOR BAND Anderson, Donald K. (p. 41/1967)
- TASTE, MUSIC AND EDUCATION -- Faulkner, Heane Gissenaas. (p. 84/1967)
- Thesis Abstract -- Marshall, Shelley M. (p. 112/1976) TEACHING AURAL SKILLS WITHOUT VISUAL AIDS: USING SIGHTED AND NON-SIGHTED CHILDREN.
- TEACHING MUSIC CLASSES THROUGH CLOSED-CIRCUIT TELEVISION (p. 28/1963) Garcia, Richard O.
  - TENSION AND MOTION AS FACTORS IN EXPRESSIVE CONDUCTING--LaButa, Joseph A. (p. 4/1967)
- Dissertation Abstract -- Kelly, John D. (p. 82/1975) THREE KEYBOARD CONCERTOS OF J. C. MONN (1726-1782).

- TOWARD THE DEVELOPMENT OF A MUSIC CURRICULUM BASED ON THE MATURATION OF THE CHILD -- Kitto, Armand. (p. 5/1962)
- TRENDS IN THE PIANO CLASS INSTRUCTION 1815-1962 Richards, William H. (p. 50/1962)
- THE TWENTIETH CENTURY: A SECONDARY TEACHER'S GUIDE FOR THE INTRODUCTION OF TWENTIETH CENTURY MUSIC WITH EMPHASIS UPON AMERICAN COMPOSERS -- Turpin, Douglas Leonard. (p. 89/1973)
  - TWENTIETH CENTURY MUSIC FOR ELEMENTARY SCHOOL CHILDREN -Thompson, Barbara. (p. 12/1963)
    - TWENTIETH CENTURY WOODWIND QUINTET MUSIC OF THE UNITED STATES. Dissertation Abstract Doherty, Charles R. (p. 108/1972)
- TWENTY-ONE AVANT GARDE COMPOSITIONS FOR CLARINET PUB-LISHED BETWEEN 1964 AND 1972. NOTATIONAL PRACTICES AND PERFORMANCE TECHNIQUES. Dissertation Abstract --Valenziano, Nicholas J. (p. 110/1973)
- AN UNGRADED GUIDE TO THE ORGANIZATION OF THE ELEMENTARY GENERAL MUSIC CURRICULUM IN THE PUBLIC SCHOOLS. Dissertation Abstract -- Ball, Rosalyn. (p. 106/1973)
  - THE USE OF NOTATED EXAMPLES IN THE FIFTH GRADE MUSIC APPRECIATION CLASS — Oberdin, Helen. (p. 35/1968)
- THE USES OF PRE-EXISTENT MUSIC IN THE TWENTIETH CENTURY.
  Dissertation Abstract -- Braun, William R. (p. 79/1975)
  - BASIC METHOD OF GROUP INSTRUCTION FOR BEGINNING CHURCH ORGANISTS. Dissertation Abstract -- Venhouse, Sister Dorothy. (p. 107/1971)
- VERBAL-DESCRIPTIVE AND PERFORMANCE RESPONSES OF KINDER-GARTEN CHILDREN TO SELECTED MUSICAL STIMULI AND TERMINOLOGY Van Zee, Norma. (p. 4/1974)
- WIND INSTRUMENTS IN THE SEVENTEENTH CENTURY COleman, Russell. (p. 5/1969)

#### SHRIFC

- AESTHETICS, MUSICAL TASTE, APPRECIATION, HUMANITIES
- Birch, Thomas E., Musical Taste as Indicated by Records Owned by College Students with Varying High School Music Experiences. (p. 53/1962)
- Cereghino, Rosemary Carnighan, The Esthetic Theories of John Dewey and Their Effect on Music Education Practices of Today. (p. 47/1976)
- Faulkner, Jeane Gissenaas, Taste, Music and Education. (p. 84/1967)
- Gaver, William D., Humanities, Integrated Arts and Aesthetic Education. (p. 95/1971)
- Lowery, Olin Dorn, The National Endowment for the Humanities as Related to Interdisciplinary Humanities Programs in Selected Colleges of the United States. Dissertation Abstract. (p. 83/1975)
- Roeckle, Charles A., Notes on Musical Taste. (p. 5/
- Rosenberg, Gloria Hayes, Humanism and the Whole Note. (p. 5/1975)

### ALLIED ARTS

- Bowling, Donald, Research and Progress in the Allied Arts. (p. 37/1962)
- Burnau, John Marcus, Factors Concerning the Production of the Musical in the High School. Dissertation Abstract. (p. 84/1969)
- Cook, Barbara, Structural Learning and Music Reading. (p. 15/1965)
- Dorn, Stephen, Sixteenth Century Polyphony. (p. 56/1963)

- Gaver, William D., Humanities, Integrated Arts and Aesthetic Education. (p. 95/1971)
- manities as Related to Interdisciplinary Humanities Programs in Selected Colleges of the United States. Lowery, Olin Dorn, The National Endowment for the Hu-Dissertation Abstract. (p. 83/1975)
  - Morie, Wayne, Principal Instrumental Forms of the Baroque Era. (p. 47/1962)
- Prante, William, Haydn, Music and Literature. (p. 45/
- Rousseau, Eugene E., Bases for the Appearance of Musical Instruments in Visual Works of Art. (p. 25/1964)
- ANALYTICAL STUDIES
- Berger, Michael E., Leopold Mozart's Partita in D: Edition. Dissertation Abstract. (p. 78/1975)
- Braun, William R., The Uses of Pre-Existent Music in the Dissertation Abstract. (p. 79/ Twentieth Century.
- scribed and Edited, with Commentary. Dissertation Curtis, Stephen Milne, Mellange de Chansons: Tran-Abstract. (p. 87/1975)
- Hamilton, James C., Leith Stevens: A Critical Analysis of His Works. Dissertation Abstract. (p. 120/1976)
  - An Urtext Edi-Jackson, John Paul, <u>Il Terzo Libro Delle Divine Lodi Musicali</u> di Gio. <u>Battista Riccio. An Urtext Edition.</u> Dissertation Abstract. (p. 88/1975)
    - Kelly, John D., Three Keyboard Concertos of J. C. Moi (1726-1782). Dissertation Abstract. (p. 82/1975)
- Langley, Richard Douglas, Sonate Concertate in Stil Moderno by Dario Castello: A Transcription of Book I. Dissertation Abstract.

- Martin, Raymond E., Eleven Selected Woodwind Concertos of Johann Melchoir Molter. Dissertation Abstract. (p. 108/1973)
- A Test Case for Computer-Aided Analysis and Synthesis of Musical Style. Dissertation Abstract. (p. Nelson, Gary Lee, Anton Webern's Five Canons, Opus 16:
- Posey, Phillip C., Instruments and Voices in Contemporary Christian Worship. Dissertation Abstract. (p. 83/1974)
- Price, Jeffrey Keith, A Study of Selected Twentieth-Century Compositions for Heterogeneous Brass Ensembles and Organ by United States Composers. Dissertation Abstract. (p. 117/1976)
- Techniques: An Analysis of the Composer's Fourth, Fifth, Rinehart, Arthur, The Factors Present in the Transi-tional Musical Vocabulary of Alexander Nikolayevitch Scriabin which Suggest Later Compositional and Sixth Piano Sonata. Dissertation Abstract. (p. 84/1975)
- Valenziano, Nicholas J., Twenty-one Avant Garde Compositions for Clarinet Published Between 1964 and 1972. Notational Practices and Performances Techniques. Dissertation Abstract. (p. 110/1973)
- Willis, James D., A Study of Paul Hindemith's Use of the Trombone as Seen in Selected Chamber Compositions. Dissertation Abstract. (p. 112/1973)
- AUDI 0-VISUAL
- Cook, Judith Kay, The Effect of Model Instruction on Teaching the Musical Concept "Phrase" to Second Year Band Students. Dissertation Abstract. (p. 123/1976)
- Compared with Lessons Presented Directly in the Class Garcia, Richard, A Study of the Effectiveness of Music Lessons Presented Via Closed Circuit Television as

- Garcia, Richard O., Teaching Music Classes Through Closed-Circuit Television. (p. 28/1963)
- Hilton, Lewis B., Individualized Instruction for General Music Classes Involving the Use of Slides Projected in Synchronization with Prerecorded Tape. (p. 49/ 1968)
  - Jetter, June Thomsen, An Evaluation of the AVII Model: A Systematic Approach to Aural-Visual Identification Instruction in Music for Young Children. Disserta-tion Abstract. (p. 80/1974)
    - Johnson, M. Orville, Music and Media. (p. 97/1973)
- Marshall, Shelley M., Teaching Aural Skills Without Visual Aids: A Study Using Sighted and Non-Sighted Children. Dissertation Abstract. (p. 122/1976)
  - Rodabaugh, Paul D. Improved Teaching Through the Use of the Videotaperecorder. (p. 67/1971)

### CAREER EDUCATION

- Milak, Melba S., Contemporary Concepts of Career Education in Music and Their Relationship to John Dewey. (p. 54/1974)
- COMPILING AND CATALOGING
- Casey, Robert Lowell, Serial Compositions for Band. Dissertation Abstract. (p. 115/1971)
- Doherty, Charles R., Twentieth Century Woodwind Quintet Music of the United States. (p. 108/1972)
  - Hummel, Donald Austin, A Selected and Annotated Bibliography of Original Works for Trombone Trio. Dissertation Abstract. (p. 119/1976)
- Martin, Raymond E., Eleven Selected Woodwind Concertos of Johann Melchoir Molter. Dissertation Abstract.

- Miller, Robert Melvin, The Concerto and Related Works for Low Brass: A Catalog of Compositions from c. 1700 to the Present. Dissertation Abstract. (p. 91/
- Shoemaker, John, A Selected and Annotated Listing of 20th Century Ensembles Published for Three or More Heterogeneous Brass Instruments. Dissertation Abstract. (p. 89/1969)
- Valenziano, Nicholas J., Twenty-one Avant Garde Compositions for Clarinet Published Between 1964 and 1972. Notational Practices and Performances Techniques. Dissertation Abstract. (p. 110/1973)
  - Weedman, Charles H., Some Problems of Opera Production in the Small College and Selected Appropriate Repertoire. Dissertation Abstract. (p. 111/1973)
    - Willis, James D., A Study of Paul Hindemith's Use of the Trombone as Seen in Selected Chamber Compositions. Dissertation Abstract. (p. 112/1973)

## CURRICULUM DEVELOPMENT

- Anderson, Donald K., Survey of Musical Style for Band. (p. 41/1962)
- Ball, Rosalyn H., The Integration of Music Learnings in the Junior High Choral Class. (p. 80/1970)
- Ball, Rosalyn, An Ungraded Guide to the Organization of the Elementary General Music Curriculum in the Public Schools. Dissertation Abstract. (p. 106/
- Blackschmidt, Alfred W., Pilot Experimental Programs for Developing High School Ensemble Music Classes (Band, Orchestra, Chorus) Into Courses Representing an Academic Discipline. (p. 62/1968)
  - Bowling, Donald, Research and Progress in the Allied Arts. (p. 37/1962)

Elementary Music Education and Pedagogy--Proposals for a Curriculum (K-6). (p. 6/1976) Boyer, Rene, The Influence of Gestalt Psychology on

Brown, Elwood H., A Study of the Application of Creativ-ity in the Teaching of Secondary School Music. Dis-sertation Abstract. (p. 112/1971)

Burnau, John Marcus, Factors Concerning the Production of the Musical in the High School. Dissertation Abstract. (p. 84/1969)

Cook, Barbara, Structural Learning and Music Reading.

A Music Educators Duncan, Curtis D., General Music: Proving Ground. (p. 51/1975)

Ellingson, Donald, Automated Teaching System for Functional Piano Skills. (p. 7/1966)

Garcia, Richard O., Teaching Music Classes Through Closed-Circuit Television. (p. 28/1963)

Geders, Sister Alphonse Marie C.PP.S., A Method of

Teaching Music Listening Grades K-9. Dissertation Abstract. (p. 105/1973) Teaching Elementary Vocal Music Reading Based on Principles of Fixed Pitch. (p. 56/1962) Hagan, Sister Mary Tobias, The Structural Method of

The Structural Organization of the Subject Matter of Music for Elementary and Junior Higȟ Curricula. (p. 64/1972) Hagan, Sister M. Tobias.

Some Hagan, Sister Tobias, Personalized Instruction: Reasons Why. (p. 11/1974)

Hoffer, Charles R., An Exploratory Study in a Use of the Violin and Recorder as Teaching Tools in Elementary School Music Classes. (p. 36/1965)

Kalipolites, Marcus, A Programmed Course in Acoustics in Music for Junior High School. Dissertation Abstract. (p. 112/1972)

Means of Improving Music Theory Teaching in Missouri Karel, Leon, The Senior Comprehensive Examination as Colleges and Universities. (p. 5/1965)

2/ <u>ه</u> Kitto, Armand, Toward the Development of a Music Curriculum Based on the Maturation of the Child.

Lackey, Myra, Learning Centers in Elementary School Music. (p. 19/1974)

Lang, John, Musical Values and the String Class. (p. 11/1962)

Lee, C. Loran, Developing Patterns of the Undergraduate Music Education Curriculum in the United States. (p. 83/1966) Milak, John, An Application of Certain Learning Theories to the Teaching of Musical Rhythm. (p. 49/1969)

on the Effects of Young Audience Concerts and a Related Curriculum on the Cognitive and Affective Milak, John, The Parker Road Project: An Experiment Development of Elementary School Children. (p. Morrill, Dexter, Report on the Ford Foundation Composer Project in University City. (p. 48/1963)

Oakley, David L., The Cumulative Attainment by Missouri High School Seniors of the Musical Learnings Stated in the Music Curriculum Guides Published by the Missouri State Department of Education. (p. 45/1972)

Fifth Grade Music Appreciation Class. (p. 35/1968) Oberdin, Helen, The Use of Notated Examples in the

(p. 17/1968) Pierce, Yvette B., Music Reading.

Richards, William H., Trends in Piano Class Instruction 1815-1962. (p. 50-62) Thompson, Barbara, Twentieth Century Music for Elementary School Children. (p. 12/1963)

Turpin, Douglas Leonard, The Twentieth Century: A Secondary Teacher's Guide for the Introduction of Twentieth Century Music with Emphasis Upon American Composers. (p. 89/1973)

Van Zee, Norma, Verbal-Descriptive and Performance Responses of Kindergarten Children to Selected Musical Stimuli and Terminology. (p. 4/1974)

Walker, Pearl W., A Study in Improving the Interpretation of Selected Arias from Standard Operas. (p. 55/ 1962)

Wardenburg, Robert, An Experiment in Programming Rudiments of Music for Fifth Grade Students Compared to Conventional Instructional Methods. (p. 68/1969)

Warner, Roger, A Design for Comprehensive Musicianship in the Senior High School Band Program. (p. 112/ Weitz, Lowell E., The Stage Band as Part of the High School Music Program. Dissertation Abstract. (p. 86/ 1969)

Yik, Stephen, A Study of the Curriculum Materials Used in Music Classes in the Primary and Secondary Schools in Taiwan from 1950-1973. Dissertation Abstract. (p. 116/1976)

Zimmerman, Marilyn P., Characteristics of the Adolescent: Implications for the Listening Repertoire. (p. 84/ 1976)

## ELEMENTARY EDUCATION

Ball, Rosalyn, An Ungraded Guide to the Organization of the Elementary General Music Curriculum in the Public Schools. Dissertation Abstract. (p. 106/

Boyer, Rene, The Influence of Gestalt Psychology on Elementary Music Education and Pedagogy--Proposals for a Curriculum (K-6). (p. 6/1976)

Geders, Sister Alphonse Marie C.PP.S., A Method of Teaching Elementary Vocal Music Reading Based on Principles of Fixed Pitch. (p. 56/1962) Hagan, Sister Mary Tobias, The Structural Method of Teaching Music Listening Grades K-9. Dissertation Abstract. (p. 105/1973)

Hagan, Sister M. Tobias, The Structural Organization of the Subject Matter of Music for Elementary and Junior High Curricula. (p. 64/1972)

Hansford, Charles, An Appraisal of Group Singing of Sixth Graders, in Twenty-Five Elementary Schools, in a Midwestern City of One Hundred Thousand. (p. 42/1965)

Lackey, Myra, Learning Centers in Elementary School Music. (p. 19/1974)

Oberdin, Helen, The Use of Notated Examples in the Fifth Grade Music Appreciation Class. (p. 35/1968)

Thompson, Barbara, Twentieth Century Music for Elementary School Children. (p. 12/1963)

Van Zee, Norma, Verbal-Descriptive and Performance Responses of Kindergarten Children to Selected Musical Stimuli and Terminology. (p. 4/1974)

Wardenburg, Robert, An Experiment in Programming Rudiments of Music for Fifth Grade Students Compared to Conventional Instructional Methods. (p. 68/1969)

<u>း</u>

in Music Classes in the Primary and Secondary Schools Yik, Stephen, A Study of the Curriculum Materials Used in Taiwan from 1950-1973. (p. 116/1976)

### ETHNOLOGY

Pathmaker of the Harlem Renaissance. (p. 72/1974) Blum, Martin, Black Music:

Brooks, Tilford, The Black Musician in American Society. (p. 18/1970)

Selected Twentieth Century Black Composers and Their Role in American Society. Dissertation Abstract. (p. 115/1972) Brooks, Tilford, A Historical Study of Black Music and

Selected Group of Afro-American Composers and Ar-Harris, Carl Gordon, Jr., A Study of Characteristic Stylistic Trends Found in the Choral Works of a rangers. Dissertation Abstract. (p. 114/1972)

Metropolitan St. Louis Area as Reflected in the Songs and Folk Songs of Its European Ethnic Groups: A Collection of Songs and Folk Songs Appropriate for Newander, Mary Clarice, The Cultural Heritage of the Use in Elementary and Junior High Schools. Dissertation Abstract. (p. 113/1976)

(b. 69/ Wexler, Kenneth, The Degradation of the Blues. 1975)

### HIGHER EDUCATION

A Preliminary Bulgin, Lansing, Music Student Teaching Practices in Missouri Colleges and Universities: A Preliminary Report. (p. 15/1964)

Hegstad, Joseph M., A Study of Interviewing Practices and Techniques Utilized in the Screening of Prospec-tive Music Personnel in Departments of Music in Institutions of Higher Education. Dissertation Ab-(p. 110/1971)

2000 (4)

Karel, Leon, Music Theory and Musicianship Teaching in Missouri Colleges and Universities: A Preliminary

Report. (p. 10/1964)

Means of Improving Music Theory Teaching in Missouri Karle, Leon, The Senior Comprehensive Examination as a Colleges and Universities. (p. 5/1965)

LeBlanc, Albert and Helen LeBlanc, CEMREL, Inc., A Study of Placement in Music History and Music Theory in Missouri Institutions of Higher Education. (p. Lee, C. Loran, Developing Patterns of the Undergraduate Music Curriculum in the United States. (p. 83/1966)

Wurtz, Martha H., Music History Teaching in Missouri Colleges and Universities — A Preliminary Report.

## HISTORY, BIOGRAPHY

Ameduri, Richard, The Derivation and Early History of (p. 88/1972) the Saxophone. Bean, Shirley Ann, The Missouri Harmony 1812-1858: Refinement of a Southern Tunebook. Dissertation stract. (p. 107/1973)

Boughton, Harrison C., Kathrine K. Davis: Work. (p. 84/1974)

Braun, William R., The Uses of Pre-Existent Music in the Twentieth Century. Dissertation Abstract. (p. 79/1975)

Brooks, Tilford, The Black Musician in American Society. (p. 18/1970)

Selected Twentieth Century Black Composers and Their Brooks, Tilford, A Historical Study of Black Music and Dissertation Abstract. Role in American Society. (p. 115/1972)

Coleman, Russell, Wind Instruments in the Seventeenth Century. (p. 5/1969) Curtis, Stephen Milne, Mellange de Chansons: Transcribed and Edited, With Commentary. Dissertation Abstract. (p. 87/1975)

Eliason, Robert E., Brass Instrument Key and Valve Mecha-nisms Made in America Before 1875. Dissertation Ab-Dorn, Stephen, Sixteenth Century Polyphony. (p. 56/1963) stract. (p. 81/1969)

Gephardt, Donald, The Significance of the Wind Ensemble in American Music Education. (p. 58/1973)

Headley, Erin, Instruction in the Music Conservatories of St. Louis 1870-1930. (p. 43/1974)

Jackson, John Paul, <u>Il Terzo Libro Delle Divine Lodi</u> Musicali di Gio. Battista Riccio. An Urtext Edition. Dissertation Abstract. (p. 88/1975)

cal Sketches, Their Productivity, Professional Status, Performance of Works, and Attitudes Towards University with American Colleges and Universities: Biographi-Jacobi(y), Hugh William, American Composers Affiliated Patronage. Dissertation Abstract. (p. 82/1974)

Jones, Robert C., Ramos and Some Polemic Theorists of the Renaissance. (p. 40/1968)

Joseph, Don Verne, The Evolution of Symphonic Instrumentation in the Nineteenth Century. (p. 60/1970)

Kelly, John D., Three Keyboard Concertos of J. C. Monn (1726-1782). Dissertation Abstract. (p. 82/1975)

Langley, Richard Douglas, <u>Sonate Concertate in Stil</u> <u>Moderno</u> by Dario Castello: A Transcription of Book I. Dissertation Abstract. (p. 90/1975)

and Work as a (p. 102/1972) Loewe, Don, Sir Carl Busch: His Life and Work as Teacher, Conductor, and Composer.

Criticism and Principals of Baroque in the Arts. Dissertation Abstract. (p. 87/1969) Leuhrman, Richard A., A Study of the Evolution of

Morie, Wayne, Principal Instrumental Forms of the Baroque Era. (p. 47/1962)

Nicholson, Joe, The Development and Use of the Renais-sance Trombone. (p. 58/1967)

Ozipko, Jerry A., A Summary of the Evolution and Development of the Cadenza in the Violin Repertory Through Use of Examples. (p. 92/1970)

Ralston, Jack L., A Century and a Half of Missouri Music. (p. 4/1973)

Rousseau, Eugene E., Bases for the Appearance of Musical Instruments in Visual Works of Art. (p. 25/

Rueb, Phyllis, The Emergence of the Public Concert. (p. 23/1969)

Schultz, Kenneth, The French Horn, A Right-Handed Instrument. (p. 23/1965)

Urban, Darrell, Gotfried Reiche, Notes on His Art, Life, Instruments and Music. (p. 14/1966)

Willman, Fred, A Brief Historical Study of the Sing-ing Schools and Shape Notes and Implications for Music Education Today. (p. 91/1976)

INSTRUCTIONAL MATERIALS

Boughton, Harrison C., Katherine K. Davis: Life and Work. (p. 84/1974)

Casey, Robert Lowell, Serial Compositions for Band. Dissertation Abstract. (p. 115/1971)

Cramer, Eugene C., A Selected List of Art Songs in French. (p. 39/1970)

- Doherty, Charles R., Twentieth Century Woodwind Quintet Dissertation Abstract. Music of the United States. (p. 108/1972)
- Kalipolites, Marcus, A Programmed Course in Acoustics in Music for Junior High School. Dissertation Abstract. (p. 112/1972)
- Martin, Raymond E., Eleven Selected Woodwind Concertos of Johann Melchoir Molter. Dissertation Abstract. (p. 108/1973)
- Songs and Folk Songs of Its European Ethnic Groups: Newander, Mary Clarice, The Cultural Heritage of the A Collection of Songs and Folk Songs Appropriate for Use in Elementary and Junior High Schools. Metropolitan St. Louis Area as Reflected in the (p. 113/1976)
- Posey, Phillip G., Instruments and Voices in Contemporary Christian Worship. (p. 83/1974)
  - 20th Century Ensembles Published for Three or More Shoemaker, John, A Selected and Annotated Listing of Heterogeneous Brass Instruments. Dissertation Abstract. (p. 89/1969)
- Thompson, Barbara, Twentieth Century Music for Elemen-tary School Children. (p. 12/1963)
  - Turpin, Douglas Leonard, The Twentieth Century: A Secondary Teacher's Guide for the Introduction of Twentieth Century Music with Emphasis Upon American Composers. (p. 89/1973)
- Valenziano, Nicholas J., Twenty-One Avant Garde Compo-sitions for Clarinet Published Between 1964 and 1972. Notational Practices and Performances Techniques. Dissertation Abstract. (p. 110/1973)
- in the Small College and Selected Appropriate Reper-Weedman, Charles H., Some Problems of Opera Production Dissertation Abstract. (p. 111/1973)

Willis, James D., A Study of Paul Hindemith's Use of the Trombone as Seen in Selected Chamber Compositions. Dissertation Abstract. (p. 112/1973)

# INSTRUCTIONAL TECHNOLOGY

- Versus Computer Assisted Instruction. Dissertation Feldt, James Von, Music Teacher Classroom Technique Abstract. (p. 1120/1972)
- Nelson, Gary Lee, Anton Webern's Five Canons, Opus 16: A Test Case for Computer-Aided Analysis and Synthesis of Musical Style. Dissertation Abstract. (p. 93/1975)

# INSTRUMENTAL MUSIC STUDIES

- Anderson, Donald K., Survey of Musical Style for Band. (p. 41/1962)
- An Berger, Michael E., Leopold Mozart's Partita in D: Edition. Dissertation Abstract. (p. 78/1975)
  - Casey, Robert Lowell, Serial Compositions for Band. Dissertation Abstract. (p. 115/1971)
- Coleman, Russell, Wind Instruments in the Seventeenth Century. (p. 5/1969)
- Collins, Thomas W., The Instrumental Music of Paul Pisk. Dissertation Abstract. (p. 113/1972)
  - Ellingson, Donald, Automated Teaching System for Func-tional Piano Skills. (p. 7/1966)
    - Violin and Recorder as Teaching Tools in Elementary Hoffer, Charles, An Exploratory Study in a Use of the School Music Classes. (p.  $36/\overline{1}965$ )
- Hummel, Donald Austin, A Selected and Annotated Bibliography of Original Works for Trombone Trio. (p. 119/1976) Dissertation Abstract.

Joseph, Don Verne, The Evolution of Symphonic Instrumentation in the Nineteenth Century. (p. 60/1970) Kremer, Marie Johanna, The Organ in Symphonic Ensemble. Dissertation Abstract. (p. 89/1975)

Lang, John, Musical Values and the String Class. (p. 11/1962) Langley, Richard Douglas, <u>Sonate Concertate in Stil</u>
<u>Moderno</u> by Dario Castello: A Transcription of Book
I. Dissertation Abstract. (p. 90/1975)

Martin, Raymond E., Eleven Selected Woodwind Concertos of Johann Melchoir Molter. Dissertation Abstract. (p. 108/1973)

Miller, Robert Melvin, The Concerto and Related Works for Low Brass: A Catalog of Compositions from c. 1700 to the Present. Dissertation Abstract. (p. 91/1975)

Ozipko, Jerry A., A Summary of the Evolution and Development of the Cadenza in the Violin Repertory Through Use of Examples. (p. 92/1970)

Price, Jeffrey Keith, A Study of Selected Twentieth-Century Compositions for Heterogeneous Brass Ensembles and Organ by United States Composers.

Dissertation Abstract. (p. 117/1976)

Rinehart, Arthur, The Factors Present in the Transitional Musical Vocabulary of Alexander Nikolayevitch Scriabin which Suggest Later Compositional Techniques: An Analysis of the Composer's Fourth, Fifth, and Sixth Piano Sonatas. Dissertation Abstract. (p. 84/1975)

Schultz, Kenneth, The French Horn, A Right-Handed Instrument. (p. 23/1965) Shoemaker, John, A Selected and Annotated Listing of 20th Century Ensembles Published for Three or More

Heterogeneous Brass Instruments. Dissertation Abstract. (p. 89/1969)

Valenziano, Nicholas J., Twenty-One Avant Garde Compositions for Clarinet Published Between 1964 and 1972. Notational Practices and Performances Techniques. Dissertation Abstract. (p. 110/1973)

Vereen, William N., A Study of Rehearsal Techniques for Symphonic Band. Dissertation Abstract. (p. 111/1971)

Warner, Roger, A Design for Comprehensive Musicianship in Senior High School Band Program. Abstract. (p. 112/1976)

Willis, James D., A Study of Paul Hindemith's Use of the Trombone as Seen in Selected Chamber Compositions. Dissertation Abstract. (p. 112/1973)

## INTERDEPARTMENTAL

Hunt, Michael F., Inter-Subject Involvement (p. 76/1973)

Peterson, Jesse Laurence, Music Departments of Colleges or Universities and Public Schools — Interrelationships. Dissertation Abstract. (p. 114/1971)

#### KEYBOARD

Ellingson, Donald, Automated Teaching System for Functional Piano Skills. (p. 7/1966)

Kelly, John D., Three Keyboard Concertos of J. C. Monn (1726-1782). Dissertation Abstract. (p. 82/1975)

Kremer, Marie Johanna, The Organ in Symphonic Ensemble. Dissertation Abstract. (p. 89/1975)

Price, Jeffrey Keith, A Study of Selected Twentieth-Century Compositions for Heterogeneous Brass En-Sembles and Organ by United States Composers. Dissertation Abstract. (p. 117/1976)

Richards, William H., Trends in Piano Class Instruction 1815-1962. (p. 50/1962)

Rinehart, Arthur, The Factors Present in the Transitional Musical Vocabulary of Alexander Nikolayevitch Scriabin Which Suggest Later Compositional Techniques: An Analysis of the Composer's Fourth, Fifth, and Sixth Piano Sonatas. Dissertation Abstract. (p. 84/1975)

#### RESEARCH

### Affect Attitude

Johnson, M. Orville, The Philosophies and Attitudes of Selected Music Teachers Toward Music Education. (p. 63/1963)

Milak, John, The Parker Road Project: An Experiment on the Effects of Young Audience Concerts and a Related Curriculum on the Cognitive and Affective Development of Elementary School Children. (p. 5/1972)

# Development, Maturation

Kitto, Armand, Toward the Development of a Music Curriculum Based on the Maturation of the Child. (p. 5/1962)

Van Zee, Norma, Verbal-Descriptive and Performance Responses of Kindergarten Children to Selected Musical Stimuli and Terminology. (p. 4/1974)

Zimmerman, Marilyn P., Characteristics of the Adolescent: Implications for the Listening Repertoire. (p. 84/

Zimmerman, Marilyn P., Research in Music Education for Young Children. (p. 44/1975)

# Discrimination, Perception

Autry, Mollie Rose, A Study of the Effect of Hand Signs in the Development of Sight Singing Skills. Dissertation Abstract. (p. 114/1976)

Lathom, Wanda, A Study of Musical Achievement of Children in an Economically Depressed Area. (p. 82/1972)

Marshall, Shelly M., Teaching Aural Skills Without Visual Aids: A Study Using Sighted and Non-Sighted Children. Thesis Abstract. (p. 122/1976)

McCurry, F. Boin, An Investigation of the Effect of Three Contrasting Types of Music on the Electric Potential Generated by the Human Brain. (p. 49/1964) Oakley, David L., The Cumulative Attainment by Missouri High School Seniors of the Musical Learnings Stated in the Music Curriculum Guides Published by the Missouri State Department of Education. (p. 45/1972)

Wardenburg, Robert, An Experiment in Programming Rudiments of Music for Fifth Grade Students Compared to Conventional Instructional Methods. (p. 68/1969)

Warner, Roger, A Study of the Relation Between the Objective and Subjective Measurement of the Quantative Differences in Tone Quality Among Various Makes of Clarinets. (p. 36/1969)

# Evaluation, Measurement

Jetter, June Thomsen, An Evaluation of the AVII Model: A Systematic Approach to Aural-Visual Identification Instruction in Music for Young Children. Dissertation Abstract. (p. 80/1974)

Karel, Leon, The Senior Comprehensive Examination as a Means of Improving Music Theory Teaching in Missouri Colleges and Universities. (p. 5/1965) Lathom, Wanda, A Study of Musical Achievement of Children in an Economically Depressed Area. (p. 82/1972)

LeBlanc, Albert and Helen LeBlanc, CEMREL, Inc., A Study of Placement in Music History and Music Theory in Missouri Institutions of Higher Education. (p. 31/1975)

Middleton, James A., A Matrix for Instrumental Compe-tencies. (p. 40/1975)

. Powell, Ira Chesley, A Study of the Relationship of Sing-ing Accuracy to the Pitch-Making Abilities of Eighty-One Subjects. Dissertation Abstract. (p. 107/1970)

tive Differences in Tone Quality Among Various Makes Warner, Roger, A Study of the Relation Between the Ob-jective and Subjective Measurement of the Quantaof Clarinets. (p. 36/1969)

# Methods and Philosophies

Anderson, Don, Missouri Music Educators Association and Action Research in the Schools of Missouri. (p. 5/ 1966)

Burmeister, Clifton A., Directions for Improvement of Research in Music Education. (p. 5/1963)

Cady, Henry, Research in Music Education: Function and Constraints. (p. 4/1970)

### Miscellaneous

Anderson, Don, Progress Report on the Action Research Project in the Schools of Missouri. (p. 3/1967)

Coppenbarger, Roger Dean, An Investigation of the Vibrating Clarinet Reed Utilizing High Speed Cinematography. Dissertation Abstract. (p. 108/1971)

search Project in the Schools of Missouri. (p. 4/ McCurry, F. Bion, Progress Report on the Action ReStephenson, Jack R., Research in Action: The Transfer of Research in Music and Music Education into the Classroom. (p. 4/1971)

# SECONDARY EDUCATION

Ball, Rosalyn H., The Integration of Music Learnings in the Junior High Choral Class. (p. 80/1970)

Brown, Elwood H., A Study of the Application of Creativity in the Teaching of Secondary School Music. Dissertation Abstract. (p. 112/1971)

Burton, James William, A Comparison of Two Methods for Teaching Musical Form to Seventh Grade General Music Classes. (p. 29/1974) Burton, James William, A Comparison of Two Methods for Teaching Musical Form to Seventh Grade General Music Classes. Dissertation Abstract. (p. 81/1975)

A Music Educators Duncan, Curtis D., General Music: Proving Ground. (p. 51/1975)

Teaching Music Listening Grades K-9. Dissertation Abstract. (p. 105/1973) Hagan, Sister Mary Tobias, The Structural Method of

Hagan, Sister M. Tobias, The Structural Organization of the Subject Matter of Music for Elementary and Junior High Curricula. (p. 64/1972)

Johnson, M. Orville, A Study of the Ratings Received by Missouri High Schools Participating in the District Music Festivals from 1959-1965. (p. 56/1966)

Kalipolites, Marcus, A Programmed Course in Acoustics in Music for Junior High School. Dissertation Ab-stract. (p. 112/1972)

Oakley, David L., The Cumulative Attainment by Missouri High Seniors of the Musical Learnings Stated in the Music Curriculum Guides Published by the Missouri State Department of Education. (p. 45/1972)

Warner, Roger, A Design for Comprehensive Musicianship in the Senior High School Band Program. Disserta-tion Abstract. (p. 112/1976)

ł

Weitz, Lowell E., The Stage Band as Part of the High School Music Program. Dissertation Abstract. (p. 86/ Yik, Stephen, A Study of the Curriculum Materials Used in Music Classes in the Primary and Secondary Schools in Taiwan from 1950-1973. Dissertation Abstract. (p. 116/1976)

## SPECIAL EDUCATION

Gagnepain, Joan Thies, Music Education and the Blind. (p. 39/1971)

Knirr, Walter H., Instrumental Music and the Cerebral Palsied Child. (p. 29/1962) Marshall, Shelley M., Teaching Aural Skills Without Visual Aids: A Study Using Sighted and Non-Sighted Children. Thesis Abstract. (p. 122/1976)

Olsen, Angie, The Slow Learner in the High School General Music Class. (p. 21/1962) Wurtz, Martha H., Music for the Academically Talented High School Student. (p. 25/1962)

### STATUS STUDIES

Bodanske, William H., Selected Conditions Associated with the Mobility of Missouri Secondary Public Schools. (p. 29/1970)

Bulgin, Lansing, Music Student Teaching Practices in Missouri Colleges and Universities: A Preliminary Report. (p. 15/1964) Jacobi(y), Hugh William, American Composers Affiliated with American Colleges and Universities: Biographical Sketches, Their Productivity, Professional Status, Performance of Works, and Attitudes Towards University Patronage. Dissertation Abstract. (p. 82/1974)

Johnson, M. Orville, The Philosophies and Attitudes of Selected Music Teachers Toward Music Education. (p. 63/1963)

Johnson, M. Orville, A Study of the State Music Festivals Missouri from 1959-1966. (p. 69/1967)

Karel, Leon, Music Theory and Musicianship Teaching in Missouri Colleges and Universities: A Preliminary Report. (p. 10/1964)

Wurtz, Martha, Music History Teaching in Missouri Colleges and Universities — A Preliminary Report. (p. 5/1964)

## TEACHER EDUCATION

Bulgin, Lansing, Music Student Teaching Practices in Missouri Colleges and Universities: A Preliminary Report. (p. 15/1964) Burgstahler, Elton, Factors Influencing the Choice and Pursuance of a Career in Music Education: A Survey and Case Approach. Dissertation Abstract. (p. 53/ Hegstad, Joseph M., A Study of Interviewing Practices and Techniques Utilized in the Screening of Prospective Music Personnel in Departments of Music in Institutions of Higher Education. Dissertation Abstract. (p. 110/1971)

Labuta, Joseph A., Tension and Motion as Factors in Expressive Conducting. (p. 4/1967) Lee, C. Loran, Developing Patterns of the Undergraduate Music Education Curriculum in the United States. Dissertation Abstract. (p. 83/1966)

## **TEACHING METHODS**

Bjorstrom, Neil, Orthodonic Treatment as a Factor in the Selections and Performance of Brass Musical Instruments. (p. 31/1973)

- Burk, James M., Development of a Methodology for Transcribing the Organ Music of Bach for Band. (p. 85/ 1971)
- Burton, James William, A Comparison of Two Methods for Teaching Musical Form to Seventh Grade General Music Classes. (p. 29/1974)
- Burton, James William, A Comparison of Two Methods for Teaching Musical Form to Seventh Grade General Music Classes. Dissertation Abstract. (p. 81/1975)
- Cook, Judith Kay, The Effect of Model Instruction on Teaching the Musical Concept "Phrase" to Second Year Band Students. Thesis Abstract. (p. 123/1976)
- Feldt, James Von, Music Teacher Classroom Technique Versus Computer Assisted Instruction. Dissertation Abstract. (p. 110/1972)
- Garcia, Richard O., Teaching Music Classes Through Closed-Circuit Television. (p. 28/1963)
- Geders, Sister Alphonse Marie C.PP.S., A Method of Teaching Elementary Vocal Music Reading Based on Principles of Fixed Pitch. (p. 56/1962)
- Hilton, Lewis B., Individualized Instruction for General Music Classes Involving the Use of Slides Projected in Synchronization with Prerecorded Tape. (p. 49/1968)
- Hutcheson, Robert J., Jr., Programmed Instruction and Music Education. (p. 9/1967)
- Johnson, M. Orville, Music and Media. (p. 97/1973)
- Middleton, James A., A Matrix for Instrumental Competencies. (p. 40/1975)
- O'Bannon, Chester Troy, A Study in Developing an Artistic Interpretation of the Song. Dissertation Abstract. (p. 80/1969)

- Rollins, Karen Denise, Music in Open Education: Its Relationship to Individualization Through the Use of Learning Centers with Emphasis on Elementary Education. (p. 14/1975)
- Schultz, Kenneth, The French-Horn, A Right-Handed Instrument. (p. 23/1965)
- Siebers, William F., Contemporary Violin Fingering. Dissertation Abstract. (p. 108/1972)
- Turpin, Douglas L., Programmed Instruction and Music Education. (p. 12/1971)
- Venhouse, Sister Dorothy, Basic Method of Group Instruction for Beginning Church Organists. Dissertation Abstract. (p. 107/1971)
- /OCAL/CHORAL
- Ball, Rosalyn, The Integration of Music Learnings in the Junior High Choral Class. (p. 80/1970)
- Cramer, Eugene C., A Selected List of Art Songs in French. (p. 39/1979)
- Curtis, Stephen Milne, Mellange de Chansons: Transcribed and Edited, with Commentary. Dissertation Abstract. (p. 87/1975)
- Geders, Sister Alphonse Marie C.PP.S., A Method of Teaching Elementary Vocal Music Reading Based on Principles of Fixed Pitch. (p. 56/1962)
- Hansford, Charles, An Appraisal of Group Singing of Sixth Graders, in Twenty-Five Elementary Schools, in a Midwestern City of One Hundred Thousand. (p. 42/1965)
- Harris, Carl Gordon, Jr., A Study of Characteristic Stylistic Trends Found in the Choral Works of a Selected Group of Afro-American Composers and Arrangers. Dissertation Abstract. (p. 114/1972)

INDEX OF ARTICLES APPEARING IN THE CONTRIBUTIONS TO MUSIC EDUCATION OHIO MUSIC EDUCATION ASSOCIATION 1972-1976	AUTHOR	Psychological Studies
Johnson, Orland, Some Notes Concerning Performance of Renaissance Choral Music. (p. 34/1964)  O'Bannon, Chester Troy, A Study in Developing an Artistic Interpretation of the Song. Dissertation Abstract.	(p. 80/1969) Posey, Phillip C., Instruments and Voices in Contemporary Christian Worship. Dissertation Abstract. (p. 83/1974) Powell, Ira Chesley, A Study of the Relationship of Singing Accuracy to the Pitch-Making Abilities of Eighty-One Subjects. Dissertation Abstract. (p. 107/1970) Walker, Pearl W., A Study in Improving the Interpretation of Selected Arias from Standard Operas. (p. 55/1962) Weedman, Charles H., Some Problems of Opera Production in the Small College and Selected Appropriate Repertoire. Dissertation Abstract. (p. 111/1973)	

χ	2 2	2 9	ς α	83	ې (	٠ ر	က	က	4	4	_	<del>,</del> •	<b>a</b> t 1	വ				_	_								
•	. u			α.	) a		∞.	∞	∞	∞	0	Ō d	Ď,	$\overline{\infty}$	œ	ã	óö	ö	χ̈́	8	8	ά	3 6	$\hat{\alpha}$	87	87	87
			_		•	Ť	٠	•	•		•	•	•	٠	•	•	•	•	•	•		•	•	٠	•		
			•	•	•	•	٠	•	•	•	•	•	٠	•	٠	•	•	•	•	•	•	•	•	•		•	
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•			
		•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•									
•	•	•	•	•	•	•	•	•	•	•		•	•	•									•.				
•	•	•	ئے :	•		•	•	•	•	•			•													Ī	•
•	•	,	∙.ō	•		•	•	•	•								,						_	٠	٠	•	•
•	•		<u>. =</u>	•																Ī	•		•	•	•	•	•
•	•		i.				٠.											•	•	•	•	•	•	•	٠	•	•
•	•		Apprec											•	٠	•		•	•	•	•	٠	•	•	•	•	•
•			р.							Ī		•	•	•	•	•		•	•	٠	•	•		•	٠	•	• •
			ᇢ.					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
					•		•	•	•	•	•	•	•	•	•	•	•	۶ .	=	•	٠	•		•	•	•	•
			دو	•	•		•	•	•	•	•	•	•	•	•	•		Percention	-	•	S	•		•			
•	•		st.	•	•		•	•	•	•	•		•	•	•	•	ō	Ċ	<u>,</u>	• •	ē						
•	•		_a	•	•	+	د -	•	•	•	•		•	_	•	•	7	٥	,	•	덥						
•	•	•	_	•	•	2	ַנ	5	•	•	•		. 0				ra	2	נ		oso				_		Ī
•	•	•	်က္က	•	•	Š	Ţ.,	_	•	>	ပ		Studi	5		æ	Maturation	۵	•		ö		C		•	٠	•
•	•	•	· :	•	•	7	- 1	ָם ק	<b>=</b> 7	덥	S		Ī	3	•	nde	٩	_	•		_ _	•			•	_	•
•	•	•	Mus	•		Develonmen	:	S .,	2	ַ פַ	Mus		Ù	)	. :	<u>=</u>		C	5	č	2	S	ŧ	,	•	0	•
•	• '	•		es,		9	יי עני	E uuca t	במתכשבוסח	piography	_		_	:		$\Xi$	يَـ	+	•	٦	5	5	Educati	, ,	2 4	Educati	•
•	•	•	S	_	sua	=	-	_ (	ز ج	<u> </u>	ú	·	ဌ	,	•	Att	ē	2	6	5 8	ana	9	Ed	V+114:00	- (	<u>ن</u> ج	_
•	•		ic i	<u>۔</u> د	S	Ξ	\$		5 ~		Ξ	•	<u>.</u>	,	•	•	툽	E	1	-	^ •	~		_ =	ָּהָ לָבָּ מי	5	Ĕ
			نب	השווח הייר	5	$\Xi$	<u> </u>		ב ב	Ŝ	띹	٦	2	٠	5 8	S,	0	5	3	ָּדְ נְ	Ξ.	_	٤	v	•	ַ ב	Ę
~		5	Ę,	Ĕ	o ·	<u>.</u>	g	בֿ בֿ	בי ל	5	2	oa	2	2	3 4	ָם פֿ	è	S	7	ì	=	ູັບ :	ğ	Ų	2 6	בֿ ל	ζ .
AUTHOR	щ	SUBJECT	Aesthetics	בׁ י	Aug10-	Curricu]um	4	ichen cary	11.01.01.1 11.01.01.01.	, כ	Instrumenta	Keyboard	Psychologi	Recearch	ÿ	Arrect	<b>Development</b>	Discriminat	Fvaluation	Mothodo Mothodo	ַ יַ	MISCE! laneous	Secondary	Status	Todoe	: כל	voca I/ cnora
Ė	TITLE	8	Ae		H.	ವ		בינ		- 1	=	ō,	S	Ž,	` ز	- '	_	_	ш.	2	- 2	_	ဗ	1	ָ מַלְ	מ מ	2
A		S						_			•	_		_	-							(	S	V	) F	- >	>

77

9/

#### AUTHOR

ADAMS, H. LESLIE, Three Views on Range and Tessitura of Adolescent Voices. (p. 40/1973)

ANDERSON, WILLIAM M., World Music in American Education, 1916-1970. (p. 23/1974)

BARNES, STEPHEN H., The High School Instrumental Music Teacher Role: An Exploration of Interposition Consensus. (p. 62/1973)

BENNER, CHARLES H., Implications of Social Change for Music Education. (p. 7/1974)

CADY, HENRY L., Music in English Education. (p. 43/

HANSEN, DUWAYNE, Principles and Problems in Music Education. By Regelski, Thomas A. (p. 107/1976)

HOTCHKISS, SALLY M. and DUANE SAMPLE, A Study of Personality in Relationship to Sex, Applied Music Major, and Choice of Degree Program Among College Music Students. (p. 90/1974)

INGLEFIELD, HOWARD G., Conformity Behavior Reflected in the Musical Preferences of Adolescents. (p. 56/1972)

KING, CARL D., The Conservation of Melodic Pitch Patterns by Elementary School Children as Determined by Ancient Chinese Music. (p. 85/1972)

LASKO, RICHARD, The CBDNA: A Study of Band Instrumenta-tion. (p. 46/1972)

LOWDER, JERRY, An Experimental Study of a Keyboard Sight-Reading Test Administered to Freshman Secondary Piano Students at the Ohio State University. (p. 97/

McDONALD, DOROTHY, An Assessment of the Learning Climate of a Selected Seventh-Grade General Music Class. (p. 40/1976)

MELLERS, WILFRID, Music in a Modern University: A Question of Priorities. (p. 12/1974)

PASCOE, CLIVE B., Motivational Pacing in Musical Design: An Active Force in Music Education. (p. 106/1974)

PLATT, MELVIN C., The History and Development of the American Institute of Normal Methods, 1914-1950. (p. 31/1973) POFF, DAVID G., The Lexington Normal Music School and the American Institute of Normal Methods, 1884-1914. (p. 17/1973)

POFF, DAVID G., The National Summer School of Music Sponsored by Ginn and Company, 1888–1919. (p. 94/ PRINCE, WARREN F., Some Aspects of Liking Responses of Junior High School Students for Art Music. (p. 25/1972)

REYNOLDS, KAY, Modification of the Observational System for Instructional Analysis Focusing on Appraisal Behaviors of Music Teachers in Small Performance Classes. (p. 75/1974)

SCHOLTEN, JAMES W., Lucius Chapin: A New England Singing Master on the Frontier. (p. 64/1976)

SHEHAN, PATRICIA K., A Study of the Musical and Educational Training of Newspaper Music Critics and a Sample of Their Criteria for Evaluation. (p. 53/1976)

SHOUP, EARL RICHARD, Supply and Demand for Music Teachers in Ohio: An Analysis of 1959-71 with Projections for 1976. (p. 4/1972)

SILANTIEN, JOHN J., The Contribution of William Channing Woodbridge to American Music Education. (p. 77/ 1976)

SISLER, HARVEY, Relative Effects of Traditional General Music and Performance Experience on the Ability to Perceive Selected Musical Events. (p. 21/1976)

TEMPLE, CHARLES P., A Study of the Effectiveness of Competition Festivals in the Music Education Process.

(p. 4/1973)

Representations of Selected Music Events. (p. 68/1972) THOMPSON, KEITH P., Relative Effectiveness on Aural Perception of Televised Verbal Descriptions and Visual

ROLIO, MARY FRIEDMANN, Theories of Affective Response to Music. (p. 1/1976)

VANDER ARK, SHERMAN D., Learning Selected Metrical Elements of Twentieth Century Music by Programmed Text for High TUTTLE, T. TEMPLE, Studies in the Psychology of Music Vol. X. By Gordon, Edwin, Editor. (p. 113/1976)

School, College, and University Students. (p. 36/1972) WEBSTER, PETER R., Research in Music Behavior in the

Classroom. By Madsen, Clifford K., R. Douglas Greer, and Charles H. Madsen, Jr. (p. 116/1976)

#### TITLE

SEVENTH-GRADE GENERAL MUSIC CLASS -- McDonald, Doro-ASSESSMENT OF THE LEARNING CLIMATE OF A SELECTED thy. (p. 40/1976) W

A STUDY OF BAND INSTRUMENTATION -- Lasko,

Richard. (p. 46/1972)

CONFORMITY BEHAVIOR REFLECTED IN THE MUSICAL PREFERENCES OF ADOLESCENTS -- Inglefield, Howard G. (p. 56/1972)

THE CONSERVATION OF MELODIC PITCH PATTERNS BY ELEMEN-

TARY SCHOOL CHILDREN AS DETERMINED BY ANCIENT CHINESE MUSIC -- King, Carl D. (p. 85/1972)

THE CONTRIBUTION OF WILLIAM CHANNING WOODBRIDGE TO AMERI-CAN MUSIC EDUCATION -- Silantien, John J. (p. 77/1976)

EXPERIMENTAL STUDY OF A KEYBOARD SIGHT-READING TEST ADMINISTERED TO FRESHMEN SECONDARY PIANO STUDENTS AT THE OHIO STATE UNIVERSITY — Lowder, Jerry. (p. 97/

THE HIGH SCHOOL INSTRUMENTAL MUSIC TEACHER ROLE: AN EXPLORATION OF INTERPOSITION CONSENSUS — Barnes, Stephen H. (p. 62/1973)

P THE HISTORY AND DEVELOPMENT OF THE AMERICAN INSTITUTE NORMAL METHODS, 1914-1950 -- Platt, Melvin C., (p.

IMPLICATIONS OF SOCIAL CHANGE FOR MUSIC EDUCATION (p. 7/1974) Benner, Charles R.

LEARNING SELECTED METRICAL ELEMENTS OF TWENTIETH CENTURY MUSIC BY PROGRAMMED TEXT FOR HIGH SCHOOL, COLLEGE, AND UNIVERSITY STUDENTS — Vander Ark, Sherman D. (p. 36/1972)

THE LEXINGTON NORMAL MUSIC SCHOOL AND THE AMERICAN IN-STITUTE OF NORMAL METHODS, 1884-1914 -- Poff, David (p. 17/1973) . 9

王 LUCIUS CHAPIN: A NEW ENGLAND SINGING MASTER ON FRONTIER -- Scholten, James W. (p. 64/1976)

MODIFICATION OF THE OBSERVATIONAL SYSTEM FOR INSTRUCTIONAL ANALYSIS FOCUSING ON APPRAISAL BEHAVIORS OF MUSIC TEACHERS IN SMALL PERFORMANCE CLASSES Reynolds, Kay. (p. 75/1974)

IN MUSIC EDUCATION - Pascoe, Clive B. (p. 106/1974) MOTIVATIONAL PACING IN MUSICAL DESIGN: AN ACTIVE FORCE

MUSIC IN A MODERN UNIVERSITY: A QUESTION OF PRIORITIES Mellers, Wilfrid. (p. 12/1974)

ı

MUSIC IN ENGLISH EDUCATION -- Cady, Henry L. (p. 1974)

GINN 94/ AND COMPANY, 1888-1919 -- Poff, David G. (p. THE NATIONAL SUMMER SCHOOL OF MUSIC SPONSORED BY

- By Regelski, Thomas A., Rev. by Hansen, DuWayne. (p. 107/1976) PRINCIPLES AND PROBLEMS IN MUSIC EDUCATION.
  - RELATIVE EFFECTIVENESS ON AURAL PERCEPTION OF TELEVISED VERBAL DESCRIPTIONS AND VISUAL REPRESENTATIONS OF SELECTED MUSIC EVENTS -- Thompson, Keith P. (p. 68/
- RELATIVE EFFECTS OF TRADITIONAL GENERAL MUSIC AND PER-FORMANCE EXPERIENCE ON THE ABILITY TO PERCEIVE SELECTED MUSICAL EVENTS Sisler, Harvey (p. 21/1976)
  - Clifford K., R. Douglas Greer, and Charles H. Madsen, Jr. Rev. by Webster, Peter R. (p. 116/1976) RESEARCH IN MUSIC BEHAVIOR IN THE CLASSROOM.
    - SOME ASPECTS OF LIKING RESPONSES OF JUNIOR HIGH SCHOOL STUDENTS FOR ART MUSIC -- Prince, Warren F. (p. 25/
- STUDIES IN THE PSYCHOLOGY OF MUSIC VOL. X. By Gordon, Edwin, Editor. Rev. by Tuttle, T. Temple. (p. 113/
- STUDY OF PERSONALITY IN RELATIONSHIP TO SEX, APPLIED MUSIC MAJOR, AND CHOICE OF DEGREE PROGRAM AMONG COLLEGE MUSIC STUDENTS -- Hotchkiss, Sally M. and Duane Sample. (p. 90/1974) ⋖
  - IN THE MUSIC EDUCATION PROCESS -- Temple, Charles P. STUDY OF THE EFFECTIVENESS OF COMPETITION FESTIVALS (p. 4/1973)
- A STUDY OF THE MUSICAL AND EDUCATIONAL TRAINING OF NEWS-PAPER MUSIC CRITICS AND A SAMPLE OF THEIR CRITERIA FOR EVALUATION Shehan, Patricia K. (p. 53/1976)
- SUPPLY AND DEMAND FOR MUSIC TEACHERS IN OHIO: AN ANALY-SIS OF 1959-71 WITH PROJECTIONS FOR 1976 Shoup, Earl Richard. (p. 4/1972)
- THEORIES OF AFFECTIVE RESPONSE TO MUSIC -- Trolio, Mary Friedmann. (p. 1/1976)

THREE VIEWS ON RANGE AND TESSITURA OF ADOLESCENT VOICES --Adams, H. Leslie. (p. 40/1973)

WORLD MUSIC IN AMERICAN EDUCATION 1916-1970 -- Anderson, William M. (p. 23/1974)

Benner, Charles H., Implications of Social Change for Music Education. (p. 7/1974) AESTHETICS, MUSICAL TASTE, APPRECIATION, HUMANISM

tional Training of Newspaper Music Critics and a Sample of Their Criteria for Evaluation. (p. 53/1976) Shehan, Patricia K., A Study of the Musical and Educa-

Trolio, Mary Friedmann, Theories of Affective Response to Music. (p. 1/1976)

### AUDIO-VISUAL

Thompson, Keith P., Relative Effectiveness on Aural Perception of Televised Verbal Descriptions and Visual Representations of Selected Music Events. (p. 68/

# CURRICULUM DEVELOPMENT

Anderson, William M., World Music in American Education, 1916-1970. (p. 23/1974)

Pascoe, Clive B., Motivational Pacing in Musical Design: An Active Force in Music Education. (p. 106/1974)

# ELEMENTARY EDUCATION

King, Carl D., The Conservation of Melodic Pitch Pat-terns by Elementary School Children as Determined by Ancient Chinese Music. (p. 85/1972)

### HIGHER EDUCATION

Mellers, Wilfrid, Music in a Modern University: A Question of Priorities. (p. 12/1974)

Vander Ark, Sherman D., Learning Selected Metrical Elements of Twentieth Century Music by Programmed Text for High School, College and University Students. (p. 36/1972)

## HISTORY, BIOGRAPHY

Platt, Melvin C., The History and Development of the American Institute of Normal Methods, 1914-1950. (p. 31/1973)

Poff, David G., The Lexington Normal Music School and the American Institute of Normal Methods, 1884-1914. (p. 17/1973)

Poff, David G., The National Summer School of Music Sponsored by Ginn and Company, 1888-1919. (p. 94/ 1976) Scholten, James O., Lucius Chapin: A New England Singing Master on the Frontier. (p. 64/1976)

Silantien, John J., The Contributions of William Channing Woodbridge to American Music Education. (p. 77/ 1976)

## INSTRUMENTAL MUSIC

Lasko, Richard, The CBDNA: A Study of Band Instrumentation. (p. 46/1972)

#### KEYBOARD

Lowder, Jerry, An Experimental Study of a Keyboard Sight-Reading Test Administered to Freshmen Secondary Piano Students at the Ohio State University. (p. 97/1974)

# PSYCHOLOGICAL STUDIES

Hotchkiss, Sally M. and Duane Sample, A Study of Personality in Relationship to Sex, Applied Music Major, and Choice of Degree Program Among College Music Students. (p. 90/1974)

Pascoe, Clive B., Motivational Pacing in Musical Design: An Active Force in Music Education. (p. 106/1974)

Tuttle, T. Temple; Studies in the Psychology of Music Vol. X. By Gordon, Edwin, Editor. (p. 113/1976)

#### RESEARCH

### Affect, Attitude

Barnes, Stephen H., The High School Instrumental Music Teacher Role: An Exploration of Interposition Consensus. (p. 62/1973) Inglefield, Howard G., Conformity Behavior Reflected in the Musical Preferences of Adolescents. (p. 56/1972)

McDonald, Dorothy, An Assessment of the Learning Climate of a Selected Seventh-Grade General Music Class. (p. 40/1976)

Prince, Warren F., Some Aspects of Liking Responses of Junior High School Students for Art Music. (p. 25/ 1972)

# Development, Maturation

Adams, H. Leslie, Three Views on Range and Tessitura of Adolescent Voices. (p. 40/1973)

# Discrimination, Perception

King, Carl D., The Conservation of Melodic Pitch Patterns by Elementary School Children as Determined by Ancient Chinese Music. (p. 85/1972)

#### 5

Sisler, Harvey, Relative Effects of Traditional General Music and Performance Experience on the Ability to Perceive Selected Music Events. (p. 21/1976)

Thompson, Keith P., Relative Effectiveness on Aural Perception of Televised Verbal Descriptions and Visual Representations of Selected Music Events. (p. 68/

Vander Ark, Sherman D., Learning Selected Metrical Elements of Twentieth Century Music by Programmed Text for High School, College, and University Students. (p. 36/1972)

#### Evaluation

for Instructional Analysis Focusing on Appraisal Be-haviors of Music Teachers in Small Performance Classes. Reynolds, Kay, Modification of the Observational System (p. 75/1974)

Temple, Charles P., A Study of the Effectiveness of Competition Festivals in the Music Education Process. (p. 4/1973)

# Methods and Philosophies

By Madsen, Clifford K., R. Douglas Greer, Webster, Peter R., Research in Music Behavior in the and Charles H. Madsen, Jr. (p. 116/1976) Classroom.

### Miscellaneous

Cady, Henry L., Music in English Education. (p. 43/

Hansen, DuWayne, Principles and Problems in Music Education. By Regelski, Thomas A. (p. 107/1976)

## SECONDARY EDUCATION

Adams, H. Leslie, Three Views on Range and Tessitura of Adolescent Voices. (p. 40/1973) Inglefield, Howard G., Conformity Behavior Reflected in the Musical Preferences of Adolescents. (p. 56/1972)

McDonald, Dorothy, An Assessment of the Learning Climate of a Selected Seventh-Grade General Music Class. (p. 40/1976)

Prince, Warren F., Some Aspects of Liking Responses of Junior High School Students for Art Music. (p. 25/

Sisler, Harvey, Relative Effects of Traditional General Music and Performance Experience on the Ability to Perceive Selected Musical Events. (p. 21/1976)

Vander Ark, Sherman D., Learning Selected Metrical Ele-ments of Twentieth Century Music by Programmed Text for High School, College and University Students. (p. 36/1972)

### STATUS STUDIES

Shoup, Earl Richard, Supply and Demand for Music Teachers in Ohio: An Analysis of 1959-71 with Projections for 1976. (p. 4/1972)

## TEACHER EDUCATION

Barnes, Stephen H., The High School Instrumental Music Teacher Role: An Exploration of Interposition Con-sensus. (p. 62/1973)

### **/OCAL/CHORAL**

Adams, H. Leslie, Three Views on Range and Tessitura of Adolescent Voices. (p. 40/1973)

#### 6.0

	83	95	100	100	<u> </u>	10	102	102	102	103	103	104	105	200	90	90	90	20	10	107	208	80.	RO :	200	110	110		= :	7
:	•	•		. (		•	•	•	•	٠.		•	•		•	•				•	•			•		٠	•	•	•
z   S	•	•	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	٠.,	•				•		•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•
HATE I	•		•				. •	•	•	•	•	•	•	•	•	•	•	•	. •	•	•	•	•	•	•	•	•	•	•
	•	•	•	<u>.</u> .		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
G IN THE C EDUCATION ASSOCIATION	•	•	•	ō ·		•	•	•	•	٠.	•	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•
	•	•	•	ָם ע	• . •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	٠	•
APPEARING IN MUSIC UCATORS A: 1976 ONTENTS	•	•	• •	ົ້ວ	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•	•	•	•	•	•	•	•
CH IN MUSI EDUCATORS 0-1976	•	•	•	ũ	• •	•	•	•	•	•	•	٠	•	•	•	•	٠	•	٠	•	•	٠	•	٠	•	•	•	•	•
APPE IN JCA 976	•	•	•	Υрр	• •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	. •	•
-IO'. U	•	•	• •	₹	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Ö	•	•	•	•	•	•	•	•	•
RESEARCH IN MUSIC EDUCA 1970-1976 ABLE OF CONTE	:	•	•	بَه	• •	•	•	•	•	_	•	•	٠	•	•		•	•	•	<u>:</u>	يه	es	•	•	•	•	•	•	•
191E	•	•	• •	1S1	•	•	•	•		ion	•	•	•	•	•	ğ	•	•	•	eb	ĕ	Ä	•	•	•	•	•	•	•
RTICLE RESEAR MUSIC 197 BLE 06	•	•	Ė	<u> </u>	• '				int	ät		•	•	•	لم	Š	•	•	•	Percept	,eII	9	•	•	•	•	•	•	•
ARTICE RESE A MUSICAL A MU		•	ġ	_ _			n	o,	me	Educat	ō	•	•	•	ŗ	ž		•	•	Pe	žű	00	•	Ë	•	•	•	•	•
A NIN			•	ဋ			bo	at.	Developmen	щ	Education	•	_	췬	Mater	Techno	Music		Attitude	•	Measurement	Philosoph	•	Education	Ξ		Ä	"	
××××			•	Mus			a]	Ön	Ve	В	Š		<u>ō</u>	ra	Σ	Ĕ	Š		<u>ت</u>	٥	_		S	cat	ij	S	<u>;</u>	ğ	
INDEX LETIN NSYLV			. :	u	· –		/Catal	Educa	De	ě	Ed		at	go	a	a			4	nation,	<u>-</u>	and	60	ğ	g	ē	Ca	Ę	_
N HIS				٠. د م	נאוא	Arts	2	0		_	>		S	Biography	o	Ö	ta	•		Ë	<u>,</u>	۵	an		Education	tudies	Education	Method	/Chora
INDEX OF A BULLETIN OF PENNSYLVANIA TA				)  -  -		. <	ď	•—	icu]um	Childhood	۾	ğ	Ed	•	Ή.	tructiona	trumental	_	ئە	scrimin	at	qs	=	5	س,	St	ш		9
12				let Jan	>	و ا	=	inu	2		ī	5	ڃ	ž	Š	à	Ę	earch	٥	S		유	S	g	a	S	ē	-	_
	æ		5	Sthetic	0.5	e :-	<u></u> 5	댳.	'n	arly	lementary	ž	the	story	itr	ţ	itr	ea	Affect,	Dis	Evaluation,	1et	Miscellaneous	Ö	Č	at.	eacher	each	É
	THOR	T.E	BJEC.	Aes T	7	A	Comp	Cont	Curr	Ear	EJe	Εŧ	Higher Education	H	Instructiona	Ins	Ins	Res	_	_		_	-	Sec	Spe	Status St	Tei	Tei	Vocal

#### AUTHOR

ALTHOUSE, JAY L., Guitar Use in Elementary and Middle Schools. (p. 44/1976)

BOOTH, THOMAS E., The Evolution of the Instrumental Conductor. (p. 40/1976)

\*\*BOTSIS, VIRGINIA, Five Modern Greek Folk Dances with Teaching Instructions for Use in the School Music Program. (p. 17/1973) BOYER, SISTER ANNA MARIE, Technical Problems of Beginning Junior High School Violinists. (p. 35/1976)

117. **AUTH**(

SUBJI

BOYLE, J. DAVID, Evaluating Musical Behaviors: Annotated Bibliography. (p. 21/1971)

Au

CALTABIANO, MARIANNE, Elementary Music Reporting Systems: A Survey of Pennsylvania School Districts. (p. 3/1975)

Art and Music are Related to Literature of the Ro-\*\*CITRO, PAULINE, A High School Unit of Study in Which

\*COSTANZA, A. PETER, The Development and Evaluation of Programmed Instruction in Score Reading Skills. (p. 19/1970) mantic Period. (p. 25/1970)

\*\*CRAWFORD, JUANITA B., The Public Performance in the Elementary School and Its Effect on Vocal Achievement. (p. 27/1970)

\*\*D'AMDROSIO, JUSTIN E., Measurement of Volume and Duration of Piano Tone. (p. 32/1970) \*DECESARE, RUTH, An Experimental Study of Selected Ethnocentric Attitudinal Change Among American Elementary School Children Toward the Culture of Japan. (p. 1/ DECESARE, RUTH, PMEA "Go" Committee: Special Education. (p. 8/1974)

83

DEIHL, NED C., Technology Working for Instrumental Music. (p. 9/1970)

\*\*DOUTT, SISTER M. KATHLEEN CECILIA, An Evaluation of Contemporary Choral Literature for Secondary Schools: A Recommended List with Sample Teaching Procedures. (p. 23/1970)

FARRELL, PATRICIA, A Music Experience -- What Does It "Mean"? (p. 23/1974)

the Development of Perceptive Music Listening in the Secondary School Music Literature Class. (p. 12/1973) \*FEINBERG, SAUL, A Creative Problem-Solving Approach to

\*FRANK, ARTHUR, Aesthetic Education: A Study of Selected Related Arts Programs in the High Schools of New Jersey. (p. 13/1971)

GAMBLE, SUE, One Approach to the Avoidance of Discipline Problems in the Junior High General Music Class. (p. 27/1976)

\*\*GELSINGER, LORRAINE E., A Music Curriculum for Elementary Special Education Students. (p. 27/1971)

GIPSON, RICHARD C., A Comparison of Class and Private Instruction for Beginning Keyboard Percussionists. (p. 31/1976)

GOODMAN, CAROL L., The Open School and Its Implication for Music Education. (p. 38/1975)

SCHÁFER AND FRANK C. SMITH, JR., A Study of College Musicians Preferences for Just Intonation and Equal Temperment. (p. 40/1975) HARGIS, KATHERINE E., LYNETT RITZENTHALER, RONALD E.

JESSUP, LINDA LEE, Innovative Vocal Techniques in Indeterminate Choral Music. (p. 36/1975) LAVERTY, GRACE E., The Status of Music in Pennsylvania Schools. (p. 5/1970)

\*\*LIEHE, JOAN A., A Curriculum for Instrumental Music in the Ghetto Elementary School. (p. 28/1971)

MALINOSKI, JAMES T., The Effects of Instrumental Music on the Reading Comprehension of Elementary Students.

\*\*MANNI, PATRICIA, A Study of the Relationship Between Musical Aptitude and Phonetic Abilities of Students in Second and Third Grades. (p. 21/1972) MAY, JAMES D., Doctoral Research: A Practical Resource for Teachers. (p. 28/1974)

a Self-Instructional Packet to Change the Questioning Techniques of Music Student Teachers. (p. 19/1973) \*MERRELL, RICHARD C., The Development and Evaluation of

MERRELL, RICHARD C., and ROBERT C. JONES, Mini-Courses: A Case History Approach. (p. 9/1976)

MERRELL, RICHARD C., and ROBERT C. JONES, PMEA "Go" Committee: Mini-Courses. (p. 3/74)

\*\*MILLER, HOPE CRITTENDEN, Music in an Elementary School Project for Normalization in Special Education. (p. 28/1973)

\*\*MOLINICH, ALEX, JR., A Correlation Study of Musical Ability and Intelligence as Related to Instrumental Music Achievement. (p. 31/1970)

Grade General Music Students' Musical Interests: An Inventory with Some Implications for Teaching. (p. 4/ NOYES, WILLIAM G. and DAVID BOYLE, Seventh and Eighth

A Search ODEN, JAMES R., Improvising and Young Children: to Help Children do Music. (p. 14/1974)

\*PARTCHEY, KENNETH CARLTON, The Effects of Feedback, Models and Repetition on the Ability to Improvise Melodies. (p. 9/1973)

PARTCHEY, KENNETH C. and J. DAVID BOYLE, A Self-Instructional Course in Melodic Improvisation: Some Effects on College Non-Music Majors. (p. 25/1975)

- PEARLBERG, HENRY L., A Survey of New Programs in Courses in the Arts in Pennsylvania. (p. 16/1975)
  - PFLIEGER, DONALD E., A College-Preparatory Course of Study in the Elements of Music Theory for Grades Eleven and Twelve. (p. 15/1973)
- RADOCY, RUDOLF E., Using Data in Your School. (p. 15/1971)
- RADOCY, RUDOLF E., Using Data in Your School, Part II: Correlation. (p. 9/1972)
- RENTSCHLER, DAVID M., A History of the Music Program at West Chester State College, 1871-1969. (p. 13/1972)
- REVICKI, ROBERT, Electronic Music Survey: Pennsylvania Colleges and Universities that Offer Music and Music Education Degrees. (p. 22/1973)
- REVICKI, ROBERT, Electronic Music Survey: Pennsylvania Public Secondary Schools. (p. 1/1972)
- REVICKI, ROBERT, Interdisciplinary Arts Survey: Pennsylvania Colleges and Universities that Prepare Art, Music and English Teachers. (p. 25/1973)
- ROACH, DONALD W., Automated Aural-Visual Music Theory Instruction for Elementary Education Majors. (p. 26/
- \*ROACH, DONALD W., Programmed Aural-Visual Music Notation Instruction for Upper Elementary School Children. (p. 23/1972)
- \*\*ROHRER, ERME, A Survey of the Utilization of Music in Special Education for Elementary Age Educable Mentally Retarded Students. (p. 30/1973)
- ROMANEK, MARY LOU, Early Childhood Programs in Pennsylvania Colleges and Universities. (p. 10/1975)
- ROMANEK, MARY LOU and MARJORIE KEMPER, PMEA "Go" Committee: Music in Early Childhood. (p. 6/1974)

- \*ROMANEK, MARY LOU, A Self-Instructional Program for the Development of Musical Concepts in Preschool Children. (p. 19/1974)
- ROUTCH, ALICE, PMEA "Go" Committee: Music in Non-Traditional Schools. (p. 10/1974)
  - SANZOTTI, VINCENT, A Mini-Course Musical Rehearsal Schedule. (p. 13/1974)
- \*SCHATKOWSKI, EDWIN, The Effects of Sound Distortion in Music Reproduction Equipment on Aural Perception. (p. 16/1972)
- SCHMALSTIEG, EMILY L., The Effects of Five Experimental Factors on the Musical Aptitude Scores of Junior High School Students. (p. 3/1976)
  - \*\*SHANNON, FRANKLIN J., An Examination of the Music Curriculums of the Junior/Community Colleges Near West Chester State College. (p. 21/1970)
    - SHULL, CARL N., The Development of an Annotated Guide to Music by Distinguished Composers for Children's Voices. (p. 8/1971)
- \*\*SIMON, MARGARET K., An Investigation of the Goals of Singing Activities in the Elementary School. (p. 28/ 1970)
- SIMPSON, JOHN O., Music in the Therapeutic Rehabilitation of Exceptional Children. (p. 38/1976)
  - SINGLETON, IRA C., Graduate Research in Music Education in Pennsylvania Colleges and Universities. (p. 37/
- SPAID, MARLENE E., A History of the Music Department at Edinboro State College from 1860-1920. (p. 31/1975)
  - SPRENKLE, CHARLES A., A Study of Correlations Among Pre-Entrance Evaluations and Achievement in the Undergraduate Music Education at the School of Music, West Chester State College, (p. 14/1970)

- SUTKUS, CAROLINE, Attitudes of Non-Music Personnel Toward an Elementary School Vocal Music Program. (p. 7/1973)
- SWANZY, DAVID. Computer Use for Information Retrieval
  in Music Education. (p. 5/1971)
  - SWANZY, DAVID, The Effectiveness of Four Types of Information Dissemination for Announcing State-Wide Music Workshops. (p. 34/1974)
    - \*\*TRAYER, RONALD R. and PAULA W. TRAYER, An Historical Survey of Community Bands and Choruses in York County. (p. 31/1973)
- TROLLINGER, LORIE, A Research Project to Improve the Musical Preparation of Classroom Teachers. (p. 15/
- \*TRUAX, BENNIE S., Development of a Verbal Technique for Identifying Children's Musical Concepts of Instrumental Timbre. (p. 18/1972)
  - \*WAREHAM, DUANE E., The Development and Evaluation of Objective Criteria for Grading Band Music into Six Levels of Difficulty. (p. 12/1970)
- WOSKOWIAK, LEONA FRANCES, The Effect of Chanting Rhythm Syllables on Rhythm Reading. (p. 10/1971)
  - \*\*ZOCKOLL, GLENN A., An Experiment in Composing by Pri-mary Children. (p. 29/1970)

#### TITLE

- AESTHETIC EDUCATION: A STUDY OF SELECTED RELATED ARTS PROGRAMS IN THE HIGH SCHOOLS OF NEW JERSEY Frank, Arthur. (p. 13/1971)
  - ATTITUDES OF NON-MUSIC PERSONNEL TOWARD AN ELEMENTARY SCHOOL VOCAL MUSIC PROGRAM Sutkus, Caroline. (p. 7/1973)

- \*AUTOMATED AURAL-VISUAL MUSIC THEORY INSTRUCTION FOR ELE-MENTARY EDUCATION MAJORS — Roach, Donald W. (p. 26/ 1974)
- A COLLEGE-PREPARATORY COURSE OF STUDY IN THE ELEMENTS OF MUSIC THEORY FOR GRADES ELEVEN AND TWELVE -- Pflieger, Donald E. (p. 15/1973)
- A COMPARISON OF CLASS AND PRIVATE INSTRUCTION FOR BEGIN-NING KEYBOARD PERCUSSIONISTS -- Gipson, Richard C. (p. 31/1976)
- COMPUTER USE FOR INFORMATION RETRIEVAL IN MUSIC EDUCA-TION -- Swanzy, David (p. 5/1971)
- \*\*A CORRELATION STUDY OF MUSICAL ABILITY AND INTELLIGENCE
  AS RELATED TO INSTRUMENTAL MUSIC ACHIEVEMENT -Molinich, Alex, Jr. (p. 31/1970)
- \*A CREATIVE PROBLEM-SOLVING APPROACH TO THE DEVELOPMENT OF PERCEPTIVE MUSIC LISTENING IN THE SECONDARY SCHOOL MUSIC LITERATURE CLASS -- Feinberg, Saul. (p. 12/1973)
- \*\*A CURRICULUM FOR INSTRUMENTAL MUSIC IN THE GHETTO ELE-MENTARY SCHOOL -- Liehe, Joan A. (p. 28/1971)
- \*THE DEVELOPMENT AND EVALUATION OF A SELF-INSTRUCTIONAL PACKET TO CHANGE THE QUESTIONING TECHNIQUES OF MUSIC STUDENT TEACHERS -- Merrell, Richard C. (p. 19/1973)
- \*THE DEVELOPMENT AND EVALUATION OF OBJECTIVE CRITERIA FOR GRADING BAND MUSIC INTO SIX LEVELS OF DIFFICULTY Wareham, Duane E. (p. 12/1970)
- \*THE DEVELOPMENT AND EVALUATION OF PROGRAMMED INSTRUCTION IN SCORE READING SKILLS -- Costanza, A. Peter. (p. 19/1970)
- \*DEVELOPMENT OF A VERBAL TECHNIQUE FOR IDENTIFYING CHIL-DREN'S MUSICAL CONCEPTS OF INSTRUMENTAL TIMBRE — Truax, Bennie S. (p. 18/1972)

- THE DEVELOPMENT OF AN ANNOTATED GUIDE TO MUSIC BY DISTINGUISHED COMPOSERS FOR CHILDREN'S VOICES -- Shull, Carl N. (p. 8/1971)
- RESOURCE FOR TEACHERS -DOCTORAL RESEARCH: A PRACTICAL May, James D. (p. 28/1974)
- EARLY CHILDHOOD PROGRAMS IN PENNSYLVANIA COLLEGES AND Universities -- Romanek, Mary Lou. (p. 10/1975)
- THE EFFECT OF CHANTING RHYTHM SYLLABLES ON RHYTHM READ-ING -- Woskowiak, Leona Frances. (p. 10/1971)
- NATION FOR ANNOUNCING STATE-WIDE WORKSHOPS -- Swanzy, THE EFFECTIVENESS OF FOUR TYPES OF INFORMATION DISSEMI-David. (p. 34/1974)
- \*THE EFFECTS OF FEEDBACK, MODELS AND REPETITION ON THE ABILITY TO IMPROVISE MELODIES -- Partchey, Kenneth Carlton. (p. 9/1973)
- THE EFFECTS OF FIVE EXPERIMENTAL FACTORS ON THE MUSICAL APTITUDE SCORES OF JUNIOR HIGH SCHOOL STUDENTS --Schmalstieg, Emily L. (p. 3/1976)
- THE EFFECTS OF INSTRUMENTAL MUSIC ON THE READING COM-PREHENSION OF ELEMENTARY STUDENTS -- Malinoski, James T. (p. 20/1976)
- \*THE EFFECTS OF SOUND DISTORTION IN MUSIC REPRODUCTION EQUIPMENT ON AURAL PERCEPTION -- Schatkowski, Edwin. (p. 16/1972)
- ELECTRONIC MUSIC SURVEY: PENNSYLVANIA COLLEGES AND UNI-VERSITIES THAT OFFER MUSIC AND MUSIC EDUCATION DE-GREES -- Revicki, Robert. (p. 22/1973)
- ELECTRONIC MUSIC SURVEY: PENNSYLVANIA PUBLIC SECONDARY SCHOOLS -- Revicki, Robert. (p. 1/1972)
- ELEMENTARY MUSIC REPORTING SYSTEMS: A SURVEY OF PENR-SYLVANIA SCHOOL DISTRICTS -- Caltabiano, Marianne.

- AN ANNOTATED BIBLIOGRAPHY -Boyle, J. David. (p. 21/1971) EVALUATING MUSICAL BEHAVIORS:
  - SECONDARY SCHOOLS -- Doutt, Sister M. Kathleen Cecilia. \*\*AN EVALUATION OF CONTEMPORARY CHORAL LITERATURE FOR (p. 23/1970)
- THE EVOLUTION OF THE INSTRUMENTAL CONDUCTOR Booth, Thomas. (p. 40/1976)
- \*\*AN EXAMINATION OF THE MUSIC CURRICULUMS OF THE JUNIOR/ COMMUNITY COLLEGES NEAR WEST CHESTER STATE COLLEGE Shannon, Franklin J. (p. 21/1970)
  - EXPERIMENT IN COMPOSING BY PRIMARY CHILDREN Zockoll, Glenn A. (p. 29/1970) \*\*AN
- EXPERIMENTAL STUDY OF SELECTED ETHNOCENTRIC ATTI-TUDINAL CHANGE AMONG AMERICAN ELEMENTARY SCHOOL CHIL-DREN TOWARD THE CULTURE OF JAPAN -- Decesare, Ruth. (p. 1/1973)
- \*\*FIVE MODERN GREEK FOLK DANCES WITH TEACHING INSTRUCTIONS FOR USE IN THE SCHOOL MUSIC PROGRAM -- Botsis, Virginia. (p. 17/1973)
- GRADUATE RESEARCH IN MUSIC EDUCATION IN PENNSYLVANIA COLLEGES AND UNIVERSITIES -- Singleton, Ira C. (p. 37/1974)
- GUITAR USE IN ELEMENTARY AND MIDDLE SCHOOLS -- Althouse, Jay L. (p. 44/1976)
- \*\*A HIGH SCHOOL UNIT OF STUDY IN WHICH ART AND MUSIC ARE RELATED TO LITERATURE OF THE ROMANTIC PERIOD Citi Pauline. (p. 25/1970)
  - \*\*AN HISTORICAL SURVEY OF COMMUNITY BANDS AND CHORUSES IN YORK COUNTY -- Thayer, Ronald R. and Paul W. Thayer. (p. 31/1973)
- A HISTORY OF THE MUSIC DEPARTMENT AT EDIMBORO STATE COL-LEGE FROM 1860-1920 -- Spaid, Marlene E. (p. 31/1979

A HISTORY OF THE MUSIC PROGRAM AT WEST CHESTER STATE COLLEGE, 1871-1969 — Rentschler, David M. (p. 13/

IMPROVISING AND YOUNG CHILDREN: A SEARCH TO HELP CHIL-DREN DO MUSIC -- Oden, James R. (p. 14/1974)

INNOVATIVE VOCAL TECHNIQUES IN INDETERMINATE CHORAL MUSIC -- Jessup, Linda Lee. (p. 36/1975)

AND UNIVERSITIES THAT PREPARE ART, MUSIC AND ENGLISH INTERDISCIPLINARY ARTS SURVEY: PENNSYLVANIA COLLEGES FEACHERS -- Revicki, Robert. (p. 25/1973)

\*\*AN INVESTIGATION OF THE GOALS OF SINGING ACTIVITIES IN THE ELEMENTARY SCHOOL -- Simon, Margaret K. (p. 28/

\*\*MEASUREMENT OF VOLUME AND DURATION OF PIANO TONE :-- D'Amdrosio, Justin E. (p. 32/1970)

MINI-COURSE MUSICAL REHEARSAL SCHEDULE -- Sanzotti, Vincent. (p. 13/1974)

MINI-COURSE: A CASE HISTORY APPROACH -- Merrell, Richard C. and Robert C. Jones. (p. 9/1976)

\*\*A MUSIC CURRICULUM FOR ELEMENTARY SPECIAL EDUCATION STUDENTS -- Gelsinger, Lorraine E. (p. 27/1971) MUSIC EXPERIENCE -- WHAT DOES IT "MEAN"? -- Farrell,

Patricia. (p. 23/1974)

TION IN SPECIAL EDUCATION -- Miller, Hope Crittenden. (p. 28/1973) \*\*MUSIC IN AN ELEMENTARY SCHOOL PROJECT FOR NORMALIZA-

MUSIC IN THE THERAPEUTIC REHABILITATION OF EXCEPTIONAL CHILDREN -- Simpson, John O. (p. 38/1976) ONE APPROACH TO THE AVOIDANCE OF DISCIPLINE PROBLEMS IN THE JUNIOR HIGH GENERAL MUSIC CLASS -- Gamble, Sue. (p.27/1976)

THE OPEN SCHOOL AND ITS IMPLICATION FOR MUSIC EDUCA-TION -- Goodman, Carol L. (p. 38/1975)

PENNSYLVANIA COLLEGES AND UNIVERSITIES THAT PREPARE ART, MUSIC AND ENGLISH TEACHERS -- Revicki, Robert. (p. 25/ 1973)

PMEA "GO" COMMITTEE: MINI-COURSES -- Merrell, Richard C. and Robert C. Jones. (p. 3/1974)

-- Romanek, PMEA "GO" COMMITTEE: MUSIC IN EARLY CHILDHOOD Mary Lou and Marjorie Kemper. (p. 6/1974)

PMEA "GO" COMMITTEE: MUSIC IN NON-TRADITIONAL SCHOOLS ---Routch, Alice. (p. 10/1974)

SPECIAL EDUCATION -- Decesare, PMEA "GO" COMMITTEE: Ruth. (p. 8/1974) \*PROGRAMMED AURAL-VISUAL MUSIC NOTATION INSTRUCTION FOR UPPER ELEMENTARY SCHOOL CHILDREN -- Roach, Donald W. (p. 23/1972) \*\*THE PUBLIC PERFORMANCE IN THE ELEMENTARY SHCOOL AND ITS EFFECT ON VOCAL ACHIEVEMENT -- Crawford, Juanity B. (p. 27/1970) RESEARCH PROJECT TO IMPROVE THE MUSICAL PREPARATION OF CLASSROOM TEACHERS -- Trollinger, Lorie. (p. 15/1976) ⋖

SELF-INSTRUCTIONAL COURSE IN MELODIC IMPROVISATION: SOME EFFECTS ON COLLEGE NON-MUSIC MAJORS -- Partchey, Kenneth C. and J. David Boyle. (p. 25/1975)

SELF-INSTRUCTIONAL PROGRAM FOR THE DEVELOPMENT OF MUSICAL CONCEPTS IN PRESCHOOL CHILDREN -- Romanek, Mary Lou. (p. 19/1974)

FOR TEACHING -- Noyes, William G. and J. David Boyle. SEVENTH AND EIGHTH GRADE GENERAL MUSIC STUDENTS' MUSI-CAL INTERESTS: AN INVENTORY WITH SOME IMPLICATIONS (p. 4/1972)

THE STATUS OF MUSIC IN PENNSYLVANIA SCHOOL -- Laverty, Grace E. (p. 5/1970)

A STUDY OF COLLEGE MUSICIANS PREFERENCES FOR JUST INTONA-TION AND EQUAL TEMPERMENT -- Hargis, Katherine E., et al. (p. 40/1975)

A STUDY OF CORRELATIONS AMONG PRE-ENTRANCE EVALUATIONS AND ACHIEVEMENT IN THE UNDERGRADUATE MUSIC EDUCATION AT THE SCHOOL OF MUSIC, WEST CHESTER STATE COLLEGE ---Sprenkle, Charles A. (p. 14/1970)

A STUDY OF THE RELATIONSHIP BETWEEN MUSICAL APTITUDE AND PHONETIC ABILITIES OF STUDENTS IN SECOND AND THIRD GRADES -- Manni, Patricia. (p. 21/1972)

A SURVEY OF NEW PROGRAMS IN COURSES IN THE ARTS IN PENN-SYLVANIA -- Pearlberg, Henry. (p. 16/1975)

\*\*A SURVEY OF THE UTILIZATION OF MUSIC IN SPECIAL EDUCA-TION FOR ELEMENTARY AGE EDUCABLE MENTALLY RETARDED STUDENTS -- Rohrer, Erma. (p. 30/1973)

TECHNICAL PROBLEMS OF BEGINNING JUNIOR HIGH SCHOOL VIOLINISTS -- Boyer, Sister Anna Marie. (p. 35/1976)
TECHNOLOGY WORKING FOR INSTRUMENTAL MUSIC -- Deihl, Ned C. (p. 9/1970)

USING DATA IN YOUR SCHOOL -- Radocy, Rudolf E. (p. 15/1971)

USING DATA IN YOUR SCHOOL, PART II: CORRELATION -- Radocy, Rudolf E. (p. 9/1972)

#### SUBJECT

AESTHETICS, MUSICAL TASTE, APPRECIATION, HUMANITIES Farrell, Patricia, A Music Experience -- What Does It "Mean"? (p. 23/1974)

\*Frank, Arthur, Aesthetic Education: A Study of Selected Related Arts Programs in the High Schools of New Jersey. (p. 13/1971)

100

AUDIO-VISUAL

Revicki, Robert, Electronic Music Survey: Pennsylvania Public Secondary Schools. (p. 1/1972)

Revicki, Robert, Electronic Music Survey: Pennsylvania Colleges and Universities that Offer Music and Music Education Degrees. (p. 22/1973)

Roach, Donald W., Automated Aural-Visual Music Theory Instruction for Elementary Education Majors. (p. 26/ \*Roach, Donald W., Programmed Aural-Visual Music Notation Instruction for Upper Elementary School Children. (p. 23/1972)

ALL IED ARTS

\*\*Citro, Pauline, A High School Unit of Study in Which Art and Music are Related to Literature of the Romantic Period. (p. 25/1970)

\*Frank, Arthur, Aesthetic Education: A Study of Selected Related Arts Programs in the High Schools of New Jersey. (p. 13/1971)

\*\*Manni, Patricia, A Study of the Relationship Between Musical Aptitude and Phonetic Abilities of Students in Second and Third Grades. (p. 21/1972)

Pearlberg, Henry L., A Survey of New Programs in Courses in the Arts in Pennsylvania. (p. 16/1975)

Revicki, Robert, Interdisciplinary Arts Survey: Pennsylvania Colleges and Universities that Prepare Art, Music and English Teachers. (p. 25/1973)

Sanzotti, Vincent, A Mini-Course Musical Rehearsal Schedule. (p. 13/1974)

#### ₹\ 0

## COMPILING/CATALOGING

Shull, Carl N., The Development of an Annotated Guide to Music by Distinguished Composers for Children's Voices. (p. 8/1971)

Singleton, Ira C., Graduate Research in Music Education in Pennsylvania Colleges and Universities. (p. 37/1974)

# CONTINUING EDUCATION

Farrell, Patricia, A Music Experience -- What Does It "Mean"? (p. 23/1974)

\*\*Trayer, Ronald T., and Paula W. Trayer, An Historical Survey of Community Bands and Choruses in York County. (p. 31/1973)

# CURRICULUM DEVELOPMENT

Merrell, Richard C. and Robert C. Jones, Mini-Courses: A Case History Approach. (p. 9/1976)

Merrell, Richard C. and Robert C. Jones, PMEA "Go" Committee: Mini-Courses. (p. 3/1974)

Noyes, William G. and J. David Boyle, Seventh and Eighth Grade General Music Students' Musical Interests: An Inventory with some Implications for Teaching (p. 4/

Pflieger, Donald E., A College-Preparatory Course of Study in the Elements of Music Theory for Grades Eleven and Twelve. (p. 15/1973)

\*Romanek, Mary Lou, A Self-Instructional Program for the Development of Musical Concepts in Preschool Children.

\*Truax, Bennie S., Development of a Verbal Technique for Identifying Children's Musical Concepts of Instrumental Timbre. (p. 18/1972)

# EARLY CHILDHOOD EDUCATION

Romanek, Mary Lou, Early Childhood Programs in Pennsylvania Colleges and Universities. (p. 10/1975)

\*Romanek, Mary Lou, A Self-Instructional Program for the Development of Musical Concepts in Preschool Children. (p. 19/1974)

Romanek, Mary Lou and Marjorie Kemper, PMEA "Go" Committee: Music in Early Childhood. (p. 6/1974)

# ELEMENTARY EDUCATION

Althouse, Jay L., Guitar Use in Elementary and Middle Schools. (p. 44/1976)

\*\*Crawford, Juanita B., The Public Performance in the Elementary School and Its Effect on Vocal Achievement. (p. 27/1970)

\*Decesare, Ruth, An Experimental Study of Selected Ethnocentric Attitudinal Change Among American Elementary School Children Toward the Culture of Japan. (p. 1/ 1973)

\*\*Gelsinger, Lorraine E., A Music Curriculum for Elementary Special Education Students. (p. 27/1971)

\*\*Liehe, Joan A., A Curriculum for Instrumental Music in the Ghetto Elementary School. (p. 28/1971)

Malinoski, James T., The Effects of Instrumental Music on the Reading Comprehension of Elementary Students. (p. 20/1976)

\*\*Manni, Patricia, A Study of the Relationship Between Musical Aptitude and Phonetic Abilities of Students in Second and Third Grades. (p. 21/1972)

May, James D., Doctoral Research: A Practical Resource for Teachers. (O. 28/1974)

\*\*Miller, Hope Crittenden, Music in an Elementary School Project for Normalization in Special Education. (p. 28/1973)

Oden, James R., Improvising and Young Children: A Search to Help Children do Music. (p. 14/1974)

Models and Repetition on the Ability to Improvise \*Partchey, Kenneth Carlton, The Effects of Feedback, Melodies. (p. 9/1973) \*Roach, Donald W., Programmed Aural-Visual Music Notation Instruction for Upper Elementary School Children. (p. 23/1972)

\*\*Rohrer, Erma, A Survey of the Utilization of Music in Special Education for Elementary Age Educable Men-tally Retarded Students. (p. 30/1973)

Shull, Carl N., The Development of an Annotated Guide to Music by Distinguished Composers for Children's Voices. (p. 8/1971)

\*\*Simon, Margaret K., An Investigation of the Goals of Singing Activities in the Elementary School. (p. 28/

\*Truax, Bennie S., Development of a Verbal Technique for Identifying Children's Musical Concepts of Instrumental Timbre. (p. 18/1972)

\*\*Zockoll, Glenn A., An Experiment in Composing by Primary Children. (p. 29/1970)

#### **ETHNOLOGY**

\*\*Botsis, Virginia, Five Modern Greek Folk Dances with Teaching Instructions for Use in the School Music Program. (p. 17/1973) \*Decesare, Ruth. An Experimental Study of Selected Ethno-central Attitudinal Change Among American Elementary School Children Toward the Culture of Japan. (p. 1/

## HIGHER EDUCATION

Effects on College Non-Music Majors. (p. 25/1975) Instructional Course in Melodic Improvisation: Partchey, Kenneth C. and J. David Boyle, A Self-

sylvania Colleges and Universities that Prepare Art, Music and English Teachers. (p. 25/1973) Revicki, Robert, Interdisciplinary Arts Survey: Penn-

Revicki, Robert, Electronic Music Survey: Pennsylvania Colleges and Universities that Offer Music and Music Education Degrees. (p. 22/1973)

Instruction for Elementary Education Majors. (p. 26/ Roach, Donald W., Automated Aural-Visual Music Theory

Shannon, Franklin J., An Examination of the Music Cur-riculums of the Junior/Community Colleges Near West Chester State College. (p. 21/1970)

Singleton, Ira C., Graduate Research in Music Education in Pennsylvania Colleges and Universities. (p. 37/

Sprenkle, Charles A., A Study of Correlations Among Pre-Entrance Evaluations and Achievement in the Under-graduate Music Education at the School of Music, West Chester State College. (p. 14/1970)

## HISTORY, BIOGRAPHY

Booth, Thomas E., The Evolution of the Instrumental Conductor. (p. 40/1976)

Rentschler, David M., A History of the Music Program at West Chester State College, 1871-1969. (p. 13/1972)

Spaid, Marlene E., A History of the Music Department at Edinboro State College from 1860-1920. (p. 31/1975)

# INSTRUCTIONAL MATERIAL

\*\*Botsis, Virginia, Five Modern Greek Folk Dances with Teaching Instrudtions for Use in the School Music Program. (p. 17/1973) Jessup, Linda Lee, Innovative Vocal Techniques in Indeterminate Choral Music. (p. 36/1975)

May, James D., Doctoral Research: A Practical Resource for Teachers. (p. 28/1974)

# INSTRUCTIONAL TECHNOLOGY

; ; Deihl, Ned C., Technology Working for Instrumental Music. (p. 9/1970)

Revicki, Robert, Electronic Music Survey: Pennsylvania Public Secondary Schools. (p. 1/1972)

Revicki, Robert, Electronic Music Survey: Pennsylvania Colleges and Universities that Offer Music and Music Education Degrees. (p. 22/1973)

Swanzy, David, Computer Use for Information Retrieval in Music Education. (p. 5/1971)

## INSTRUMENTAL MUSIC

Althouse, Jay L., Guitar Use in Elementary and Middle Schools. (p. 44/1976)

Booth, Thomas E., The Evolution of the Instrumental Conductor. (p. 40/1976)

Boyer, Sister Anna Marie, Technical Problems of Beginnine Junior High School Violinists. (p. 35/1976)

Deihl, Ned C., Technology Working for Instrumental Music. (p. 9/1970)

Malinoski, James T., The Effects of Instrumental Music on the Reading Comprehension of Elementary Students. (p. 20/1976)

\*\*Molinich, Alex, Jr., A Correlation Study of Musical Ability and Intelligence as Related to Instrumental Music Achievement. (p. 31/1970)

\*Wareham, Duane E., The Development and Evaluation of Objective Criteria for Grading Band Music Into Six Levels of Difficulty. (p. 12/1970)

#### RESEARCH

### Affect, Attitude

Hargis, Katherine E., et al., A Study of College Musicians Preferences for Just Intonation and Equal Temperment. (p. 40/1975)

Noyes, William G. and J. David Boyle, Seventh and Eighth Grade General Music Students' Musical Interests: An Inventory with Some Implications for Teaching. (p. 4/

Sutkus, Caroline, Attitudes of Non-Music Personnel Toward an Elementary School Vocal Music Program. (p. 7/1973)

Swanzy, David, The Effectiveness of Four Types of Information Dissemination for Announcing State-Wide Music Workshops. (p. 34/1974)

# Discrimination, Perception

\*Schatkowski, Edwin, The Effects of Sound Distortion in Music Reproduction Equipment on Aural Perception. (p. 16/1972)

\*Truax, Bennie S., Development of a Verbal Technique for Identifying Children's Musical Concepts of Instrumental Timbre. (p. 18/1972)

# Evaluation, Measurement

Boyle, Sister Anna Marie, Technical Problems of Begin-ning Junior High School Violinists. (p. 35/1976)

\*\*D'Amdrosio, Justin E., Measurement of Volume and Duration of Piano Tone. (p. 32/1970)

Sprenkle, Charles A., A Study of Correlations Among Pre-Entrance Evaluations and Achievement in the Undergraduate Music Education at the School of Music, West Chester State College. (p. 14/1970)

# Methods and Philosophies

Radocy, Rudolf E., Using Data in Your School. (p. 15/

Radocy, Rudolf E., Using Data in Your School, Part II: Correlation. (p. 9/1972)

Swanzy, David, Computer Use for Information Retrieval in Music Education. (p. 5/1971)

### Miscellaneous

Caltabiano, Marianne, Elementary Music Reporting Systems: A Survey of Pennsylvania School Districts. (p. 3/1975)

## SECONDARY EDUCATION

Althouse, Jay L., Guitar Use in Elementary and Middle Schools. (p. 44/1976)

Boyer, Sister Anna Marie, Technical Problems of Begin-ning Junior High School Violinists. (p. 35/1976)

108

\*\*Citro, Pauline, A High School Unit of Study in Which Art and Music are Related to Literature of the Ro-mantic Period. (p. 25/1970)

\*\*Doutt, Sister M. Kathleen Cecilia, An Evaluation of Contemporary Choral Literature for Secondary Schools. (p. 23/1970)

Secondary School Music Literature Class. (p. 12/1973) the Development of Perceptive Music Listening in the \*Feinberg, Saul, A Creative Problem-Solving Approach to

\*Frank, Arthur, Aesthetic Education: A Study of Selected Related Arts Programs in the High Schools of New Jersey. (p. 13/1971)

Gamble, Sue, One Approach to the Avoidance of Discipline Problems in the Junior High General Music Class. (p. 27/1976)

May, James D., Doctoral Research: A Practical Resource for Teachers. (p. 28/1974)

Merrell, Richard C. and Robert C. Jones, Mini-Courses: A Case History Approach. (p. 9/1976)

Noyes, William G. and J. David Boyle, Seventh and Eighth Grade General Music Students' Musical Interests: An Inventory with Some Implications for Teaching. (p. 4/

Pflieger, Donald E., A College-Preparatory Course of Study in the Elements of Music Theory for Grades Eleven and Twelve. (p. 15/1973)

Pennsylvania Revicki, Robert, Electronic Music Survey: Public Secondary Schools. (p. 1/1972)

Schmalstieg, Emily L., The Effects of Five Experimental Factors on the Musical Aptitude Scores of Junior High School Students. (p. 3/1976)

Decesare, Ruth, PMEA "Go" Committee: Special Educa-tion. (p. 8/1974)

\*\*Gelsinger, Lorraine E., A Music Curriculum for Elementary Special Education Students. (p. 27/1971)

\*\*Liehe, Joan A., A Curriculum for Instrumental Music in the Ghetto Elementary School. (p. 28/1971)

\*\*Miller, Hope Crittenden, Music in an Elementary School Project for Normalization in Special Education. (p. 28/1973)

\*\*Rohrer, Erma, A Survey of the Utilization of Music in Special Education for Elementary Age Educable Mentally Retarded Students. (p. 30/1973)

Routch, Alice, PMEA "Go" Committee: Music in Non-Traditional Schools. (p. 10/1974)

Simpson, John O., Music in the Therapeutic Rehabilitation of Exceptional Children. (p. 38/1976)

### STATUS STUDIES

\*Frank, Arthur, Aesthetic Education: A Study of Selected Related Arts Programs in the High Schools of New Jersey. (p. 13/1971)

Laverty, Grace E., The Status of Music in Pennsylvania Schools. (p. 5/1970)

Pearlberg, Henry L., A Survey of New Programs in Courses in the Arts in Pennsylvania. (p. 16/1975)

## TEACHER EDUCATION

\*Merrell, Richard C., The Development and Evaluation of a Self-Instructional Packet to Change the Questioning Techniques of Music Student Teachers. (p. 19/ 1973)

Trollinger, Lorie, A Research Project to Improve the Musical Preparation of Classroom Teachers. (p. 15/ 1976)

## TEACHING METHODS

\*Costanza, A. Peter, The Development and Evaluation of Programmed Instruction in Score Reading Skills. (p. 19/1970)

\*Feinberg, Saul, A Creative Problem-Solving Approach to the Development of Perceptive Music Listening in the Secondary School Music Literature Class. (p. 12/1973)

Gipson, Richard C., A Comparison of Class and Private Instruction for Beginning Keyboard Percussionists. (p. 31/1976)

Goodman, Carol L., The Open School and Its Implication for Music Education. (p. 38/1975)

Jessup, Linda Lee, Innovative Vocal Techniques in Indeterminate Choral Music. (p. 36/1975)

\*Partchey, Kenneth Carlton, The Effects of Feedback, Models and Repetition on the Ability to Improvise Melodies. (p. 9/1973)

Partchey, Kenneth C. and J. David Boyle, A Self-Instructional Course in Melodic Improvisation: Some Effects on College Non-Music Majors. (p. 25/1975)

\*Roach, Donald W., Programmed Aural-Visual Music Notation Instruction for Upper Elementary School Children. (p. 23/1972)

Routch, Alice, PMEA "Go" Committee: Music in Nontraditional Schools. (p. 10/1974)

Woskowiak, Leona Frances, The Effect of Chanting Rhythm Syllables on Rhythm Reading. (p. 10/1971)

\*\*Zockoll, Glenn A., An Experiment in Composing by Primary Children. (p. 29/1970)

/OCAL/CHORAL

\*\*Crawford, Juanita B., The Public Performance in the Elementary School and Its Effect on Vocal Achievement. (p. 27/1970)

\*\*Doutt, Sister M. Kathleen Cecilia, An Evaluation of Contemporary Choral Literature for Secondary Schools. (p. 23/1970)

Jessup, Linda Lee, Innovative Vocal Techniques in Indeterminate Choral Music. (p. 36/1975)

Shull, Carl N., The Development of an Annotated Guide to Music by Distingished Composers for Children's Voices. (p. 8/1971)

Singing Activities in the Elementary School. (p. 28/1970) \*\*Simon, Margaret K., An Investigation of the Goals of

#### ABSTRACT

HEALEY WILLAN: THE INDEPENDENT ORGAN WORKS

Joylin Campbell-Yukl, Doctor of Musical Arts University of Missouri-Kansas City, 1976

become head of the Department of Theory at the Conserva-tory of Music in Toronto. He resided in Toronto until James Healey Willan, born in Balham, England 1880, moved to Canada in 1913 in response to an invitation to his death in 1968. His varied compositional and academic career was woven around his work as Precentor, organist-choirmaster, at St. Mary Magdalene Anglican Church in Toronto. A colorful personality of modest disposition, he was an important figure in the early development of Canadian music.

based on liturgical sources, are eighteen in number and are divided into two time periods. Early works of his organ literature. Following his retirement in 1950 he His independent organ works, those which are not youth essentially belong to the Romantic school. An interim between 1933 and 1951 was productive of music liturgical sources. These works, with one exception, in many mediums, but not in the area of independent are smaller in scope than those of his early years. again wrote organ music disassociated with church

paper provides a structural and thematic catalogue in-Analysis of the independent organ works in this tended as a guide toward the understanding of these works from a performer's viewpoint.

his style rělies on counterpoint for its nucleus of musi-Although Willan never formally studied composition, which influenced his independent organ works to a decal concept. He was a lifelong devotee to plainsong gree in melodic and modal predeliction; it did not,

however, form a basis for these compositions.

His harmonic vocabulary remained in a traditional tertian Romantic idiom; he was not innovative in any twentieth century aspects. He was satisfied with remaining in a familiar framework. Composing in contrapuntal forms was particularly appealing to him and it is in this genre that he attained his greatest rhetoric.

The Romantic organ of heavy metal pipes and low wind pressures endured as his ideal in organ sound production and for this type of organ he conceived his large scale works. Consequently, performance of these works should be on a fairly comprehensive modern instrument.

Virtuostic demands are made of the organist's technique in rapid passage work and legato chords of multiple voices. Speed and rapidity of stop changes are necessary coupled with the ability to wield control of the mechanical aspects in organ console design. Compositions of smaller scope are practical for organists of modest abilities.

#### ABSTRACT

AN EVALUATION OF G. F. HANDEL'S USE OF THE OBOE IN HIS ARIAS: A CATALOGUE, BY INSTRUMENT, OF HANDEL'S ARIAS WITH INSTRUMENTS: AND A PERFORMING EDITION ACCOMPANIED BY A PERFORMANCE TAPE OF A HANDEL ARIA WITH OBOE SOLO

Sara A. Funkhouser, Master of Music University of Missouri-Kansas City, 1976 This paper evolved as the result of the desire of the writer to know more about Handel's use of the oboe with solo voice. No catalogue of his arias was available, so the first requisite was to research the arias of the instruments, a complete instrumental catalogue was made. The purpose of this catalogue, therefore, is to make the arias of Handel more accessible to the performer and to discuss Handel's use of the oboe in his arias. The arias are catalogued by instrument so that, for example, a flutist, by turning to the flute category, can immediately see what arias use flute; what the voice designation is for each aria; and the tempo, time signature and tonality of each aria.

With the aid of the catalogue it was possible to make an evaluation of Handel's use of the oboe. Included in this volume is information concerning the percentage of arias for each of the wind instruments and the prevalence of tempos, time signatures, tonalities, and voice designations for each wind instrument. A discussion of Handel's writing for the Baroque oboe and a chronological analysis of Handel's use of the oboe is also included. The oboe is usually discussed in terms of the following four categories: oboe solo; oboe I, II;

unison oboes; and oboes and violins in unison, as it appears that Handel treats the oboe in a different manner in each of these categories. Using the information from the catalogue, in addition to an analysis of these works, a summary has been made of his use of the oboe in these four categories.

Included is a survey of Handel's use of articulation marks in the arias using winds, with a table to make these findings more accessible. There is also discussion of the difference of approach to articulation between the modern and Baroque oboes. The reader will find a section on Handel's idiomatic figuration for the oboe as contrasted with the strings and the remainder of the winds.

In the hope of illustrating some of the findings of the text, in effect acting as a summary of the text with additional commentary on ornamentation, a performance edition and discussion of one of the arias has been prepared. This is accompanied by a tape recording of the edition performed on both modern and Baroque oboes.

As a result of this research, it appears that the oboe is Handel's preferred wind instrument with arias. It is by far the one most frequently used, appearing in 30 percent of the arias. (The flute and recorder, next highest in percentage of use, appear in only 3 percent.) Handel seems to find the oboe capable of a variety of moods.

#### ABSTRACT

DON AGOSTINO SCOZZESE'S IL PRIMO LIBRO DI MADRIGALI A 5 VOCI William J. Gillis, Master of Music University of Missouri-Kansas City, 1976 This transcription is the first known modern score edition of Don Agostino Scozzese's Il Primo Libro di Madrigali a 5 Voci. It provides a source of music to students and scholars from which they are able to perform and study. Furthermore, this is the first known modern edition of any of Scozzese's music.

The only known compositions of Scozzese are Il Primo Libro di Canzoni alla Napolitana a 3 a 4 e 5 Voci, published by Angelo Gardano in Venice in 1579, and Il Primo Cenzi and Ricciardo Amadino in Venice in 1584. The only primary sources of biographical information on the composer are the title pages and dedications of the two Scozzese was from these sources it is known that this refers to Leccio, but it is uncertain whether There is no mention of either his birth date or his occupation.

The only secondary sources of information on Scozzese are Robert Eitner, Biographisch-Bibliographisches Quellen-Lexicon der Musiker und Musikgelehrten and Emil Vogel, Bibliothek der Gedruckten Weltlichen Vokalmusik Italiens. Eitner lists the two publications of the composer and draws his biographical information from the title pages and dedications of the prints while Vogel merely lists the known works.

GOLDEN MEAN PROPORTION IN NINE OF THE FIRST MOVEMENTS OF THE BEETHOVEN PIANO-VIOLIN SONATAS

Beth L. Hurlburt, Master of Music University of Missouri-Kansas City, 1977

golden mean proportion may be illustrated by the following algebraic exercise. If a unit segment is divided in such a way that the greater part is the mean proportional of the smaller part and the whole segment, In this thesis, nine of the first movements of the Beethoven piano-violin sonatas are examined in terms of There is, in most cases, a great coincidence of these points of golden section with the major sonata-allegro all of the parts are said to be in golden mean proportion to each other. At first, the golden mean of the the golden mean proportion. The golden mean is a prostructural points. The occurrence of these structural entire length of each sonata movement is found. Once throughout the history of western civilization. The golden section to the end of the movement. Several calculations are made in this way for each movement. traditional importance and the sense of balance they points in golden mean proportions may explain their the point of golden section of the entire length is found, another section is struck from that point of portion which has been found in great works of art impart to the structure.

The augmented chords, augmented sixth chords, and the Neopolitan sixth chords found in these sonata movements also exhibit the golden mean in their proportions. In some cases, the occurrences of key relationships of a third to the tonic key and the relationships of the parallel major/minor keys are in golden mean proportions.

The importance that has been placed on these particular chords and these particular key relationships throughout history may be due in part to the golden mean pro-portions they display.

EFFECT OF A SYSTEMATIC INSTRUCTIONAL MODEL ON MUSICAL CONCEPT DEVELOPMENT BY FOUR-YEAR-OLD CHILDREN

June Thomsen Jetter, Ph.D. Faculty, University of Missouri-Kansas City The problem of this study was to obtain evidence of the ability of young children to develop musical concepts when instruction is controlled by a systematic concept development model. The model, adapted from general concept development designs and designated the Aural-Visual Identification Instruction (AVII) model, had been tested for effectiveness with second grade children in a previous study (Jetter, 1975). The model is derived from behavioral theory and applies linear programming to group instruction.

The method of the study was to use materials prepared according to the specifications of the model to teach five musical identifications to four groups of four-year-olds in federally-funded and privatelyfunded preschool programs. Source of funding identified programs representative of different socio-economic backgrounds.

A quasi-experimental posttest-only equivalent-materials research design was used for the investigation. Independent variables were: School Type, Sex, Age (in months), Number of Practice Items, Amount of Time Lapse (between instruction and testing on a single concept task), and Testing Format (group-administered test or individually-administered test). The sample consisted of 63 children in four preschool centers in the Kansas City area. Three programs were general programs with varied activities and one was a Montessori

program. The children were instructed over a period of six months and then tested on all identifications.

68-72% of the children scored four or more on trombone identification, clarinet identification, and exact repetition identification (p <.01). 54% scored four or more on the 6-item subtest for cello identification. Only one center (N=9) received instruction on half-step interval identification.

A stepwise regression analysis showed that Age at the beginning of instruction (in months) accounted for 35% of achievement for trombone identification with Number of Practice Items accounting for an additional 6%. Number of Practice Items accounted for 80% of achievement for exact repetition identification. Age did not add a significant amount in the explanation of achievement on exact repetition identification tasks. Analysis of variance of the data showed no significant difference in achievement for children in federally-funded or privately-funded centers, for boys or girls, or for age of children (above 48 months) when instruction was initiated. There was no significant correlation between scores of children tested in a group and the scores of the same children tested in a group and the scores of the same children tested individually. This finding suggests that the relationship between instructional format and testing format needs to be investigated further. The effect of Number of Practice Items and Time Lapse (between instruction and testing)

The study provided evidence that four-year-old children can develop concepts of trombone timbre, clarinet timbre, exact melodic repetition, and half-step interval when effective instruction is provided. Age of child (over 48 months), socio-economic background, and sex were not significant factors in achievement when the AVII model materials were used for instruction. Amount of Practice with the concept stimulus and Amount of Time Lapse between instruction and testing appear to be related to the achievement of specific musical concept development tasks.

A BIOGRAPHY OF NICCOLO PICCINNI AND A CRITICAL STUDY OF HIS LA DIDONE AND DIDON

Margaret McGinness Liggett, Ph.D. Washington University, 1977

In addition to the voluminous secondary source material, Piccinni and to compare the Italian and French versions published letters from Piccinni; a copy of his contract The purpose of this dissertation is to gather and the following primary sources are discussed: four unwith the Paris Opera; and a copy of his preface for an Italian translation of Fux's Gradus ad Parnassum. has relied on eighteenth-century accounts of his life. of his two operas based on Virgil's story of Dido and Aeneas. Since no modern biography exists, the author consolidate biographical data on the life of Niccolo

exposure to Italian opera, adovcated the reform of French serious opera by the introduction of Italian styles, partragedie lyrique was stagnate as a result of convention and tradition. The French Encyclopedists, through their buffa. Piccinni was invited to Paris to implement their of the late eighteenth century, immensely popular not only in Italy but throughout Europe as well. He lived during a time when Italian opera seria enjoyed some measure of vitality but little innovation, while French complishment of these reforms by writing French libretti reforms. His chief librettist, Marmontel, a member of This study shows that Piccinni was viewed by his contemporaries as one of the most important composers ticularly the ingratiating melodic style of the opera the Encyclopedist group, attempted to assure the acsuitable to Piccinni's Italian melodic style.

tragedy of Dido, was written for Italian audiences in La Didone, Piccinni's first opera based on the

1769. Didon, based on a French libretto by Marmontel, was written in 1783 and had its Paris p-emiere at the Opera.

they were written specifically to meet the artistic demands of a fickle audience. A study of these operas, A study of the manuscripts of La Didone and Didon reveals that the elements of Italian opera desired for the reform of tragedie lyrique are already present in Didon. Both operas are now obscure, largely because however, illuminates an important era in the history These characteristics were retained in of French and Italian opera. La Didone.

MUSICAL TIME AND TIME SIGNATURES AND THEIR RELATION TO HOROLOGICAL DEVELOPMENTS IN THE SEVENTEENTH CENTURY

Washington University, 1977 Ellen TeSelle-Boal, M.A.

in relation to theories expressed by contemporary writers. of horological developments, a study of late seventeenth-A study of late seventeenth-century time signatures Special attention is given to references to time-keeping and tempos of representative compositions of the period. devices as indicators of tempo. Included are a history century clocks, and an analysis of the time signatures

century, including an autograph manuscript by Henry Purcell in the British Library; research into the history turies, and musical compositions of the late seventeenth of horology and examination of historical timepieces in treatises of the seventeenth and early eighteenth cen-Procedures included a study of the extant musical European museums; analysis and performance of music of the period.

#### ABSTRACT

STROMENTI DA TIRARSI IN THE CANTATAS OF J. S. BACH

Washington University, 1976 Darrell Urban, Ed.D.

The objective of this study is to evaluate widely scattered evidence pertaining to Johann Sebastian Bach's use of the enigmatic Tromba da tirarsi (slide trumpet) and Corno da tirarsi (slide horn).

Musicologists have long been perplexed by Bach's apparent usage of these instruments. Their very existence has been doubted by many writers of the history of musithe existence of these instruments include Charles Sanford Terry, and Curt Sachs. Only Terry and Sachs have cal instruments. Foremost among these have been Adam Carse and Francis W. Galpin. Authorities advocating treated the tirarsi question at length, and both have indicated the need for further research. parent usage of these instruments.

tory of the slide trumpet dates from the early Renaissance vast scope and the paucity of evidence. The tenuous histhrough the Baroque periods, and yet little evidence of specified the use of these instruments in his cantatas, the problem of the tirarsi instruments might have been Reluctance to confront the problem stems from its its existence remains. Had not Bach, or his copyists, overlooked.

acoustics, and trends in composition and orchestration. and horn is discussed and the opinions of major writers A thorough investigation of this problem must in-clude not only the history of brass instruments in the Renaissance and Baroque periods, but also iconography, To assemble a concise body of facts from which further research can proceed, the following procedures are: In Volume I, the historical basis of the slide trumpet are presented. The second part of Volume I deals with

A PROGRAM FOR TEACHING MUSICIANSHIP IN THE FIRST YEAR OF CLASS STRING INSTRUCTION

Charles Lester Wentworth, Ed.D. Washington University, 1978 This dissertation consists of teacher and student materials for the first year of class string instruction. The emphasis of this program is twofold: 1) student formation of concepts in six basic dimensions of music: a) Pitch, b) Rhythm, c) Dynamics, d) Timbre, e) Form, f) Style; and 2) development of traditional performance skills.

An ecclectic philosophy of music education was developed, based on current educational and music educational thought. From this philosophy criteria were developed to evaluate existing class string methods. No existing methods were found which adequately met these criteria in terms of developing conceptualization by the student.

Fifty-one teaching strategies and nine evaluative strategies were formulated with an emphasis on developing conceptualization. The students were presented with basic skills of string instrument playing and information about music which were then used to help the student form concepts about pitch, rhythm, timbre, dynamics, form, and style which may be applied to all music. The students performed, analyzed, and composed for the purpose of arriving at and making use of musical concepts concomitantly with improvement of performance skills.

In order to ascertain that conceptualization was taking place, an identical aural pre-post test was developed and administered to the author's beginning fifth grade string students. The pre-post tests were tape recorded and required the students to make conceptual judgements about musical examples based on the dimensions of

the question of the practical use of these instruments, i.e., their ability to perform the parts that Bach assigned to them. The approach to this question consists of a statistical analysis of the fourteen movements known to be assigned to the <u>tirarsi</u> instruments by Bach, and a statistical determination of the feasibility and facility of the instruments in the performance of these parts.

The final part of Volume I consists of an evaluative analysis of the cantata parts assigned to the tirarsi instruments. This section also includes analysis of cantata parts not specifically assigned to the slide instruments, but which contain passages which lie outside the capabilities of natural brass instruments of the period, and have therefore been attributed to the tirarsi instruments by Terry and others.

Volume II treats three specific problems concerning the Corno da tirarsi: 1. The singularity of the term Corno da tirarsi in the works of J. S. Bach. 2. Paucity of information regarding the horn in the period 1600-1750. 3. Bach's peculiar horn nomenclature. Bach specified the use of the horn by a variety of names, i.e., Corno, Cor de chasse, Corno da caccia, Corno par force, Lituus, and Corno da tirarsi. This nomenclature leads to the assumption that different names meant different horns, and that Bach had specific reasons for their use. However, no writer has yet clarified Bach's nomenclature. A better understanding of the nomenclature will perhaps add to the knowledge of the Corno da tirarsi.

In the final section of Volume II, findings concerning Bach's nomenclature, resulting from a study of the original manuscript photocopies, are discussed; creating possibilities for further research.

music. There was an average gain of fifteen correct answers (27%) from the pretest to the posttest. It should be emphasized that the pre-post test was designed only to measure conceptualization. No measure was made of performance ability or knowledge. The intent of the pre-post test is simply to present evidence that this method does produce positive results in the student's ability to conceptualize about the dimensions of music.

# MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

**Volume IV** 

Number 2

1978

Published by the

**Missouri** Music

**Educators Association** 

#### MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

#### Published by the Missouri Music Educators Association

olume	IV	1978		Nι	ımb e	er 2
	A Curriculum for ship to Secondary Composing, Lister Performing Lewis B. Hilton University	y School Si ning, Analy	tudents: /zing an		•	9
	Retention of Song Poems by Retarded Wanda Lathom, U Missouri-Kansas	d Children University		•	•	27
	The Relationships Academic, Musical Factors to Grades Undergraduate Mus Ear Training Coun Sandra J. Emig College, Libers	l, and Back s Obtained sic Theory rses , William (	kground in and Jewell	•	•	43
	American Tune Boo Using Shaped-Note 1860, A Forerunne Music Education David Lamar Oal of Missouri-Ro	e Systems, er of Ameri kley, Unive	1801- i can	•	•	51
٧.	Selected Abstract Education	t <b>s in Mu</b> sic		•	•	104
	A. Samuel Coleric Analysis of Se Works and an E His Influence can Musicians: for Teachers John C. Bato	elected Pia Examination on Black A : A Source	no of Ameri- Book			
	University			•	•	104

NORMA DAMINE TYPIST

8				¥: X		.4
				Same of the second		and the second s
10		6		8	4	7
105	107	109	11	11	11,	11.
B. Perspectives for Developing Principles and Guidelines in the Construction of the General Music Curriculum for American Elementary Schools: An Eclectic Approach Rene Boyer, Washington University	Music in Chauc Dream Poems — Linda C. Fer Missouri-Kan	D. The Effects of Different Familiar and Unfamiliar Musical Timbres on Musical Melodic Dictation Donald Lewis Gephardt,	E. An Evaluation of Massed and Distributed Practice for the Teaching of Melodic Repetition Administered by Classroom Teachers and a Music Specialist Kristin K. Gerth, University of Missouri-Kansas City	F. Discussion and Transcription of the Thirteenth-century Middle English Religious Monoday, Worldes Blis Daniel William Goodnell,	<pre>G. Cadential Embellishments in German    Keyboard Music of the Sixteenth,    Seventeenth, and Eighteenth Centuries</pre>	H. An Experimental Study of the Relationship Between Musical Note-Reading and Language Reading  Daniel Lew Roberts, University  of Missouri-Kansas City
5			11 / 12 m		* 4	Children Constitution of the Constitution of t

struction and Self-Instruction Struction and Self-Instruction Using Two Musical Tasks: Oboe Timbre Identification and Melodic Sequence Identification Jimmy Kay Trenkle, University of Missouri-Kansas City	119	120	121
- A	struction and Self-Instruction Struction and Self-Instruction Using Two Musical Tasks: Oboe Timbre Identification and Melodic Sequence Identification Jimmy Kay Trenkle, University of Missouri-Kansas City	J. Modality, Tonality and Musica Ficta in Sixteenth-century Chanson Rhian Samuel Curtis, Washington University	K. Music as Reinforcement in Increas- ing Spontaneous Speech Among Autistic Children Darlene Watson, University of Missouri-Kansas City

~

#### MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

Editor: Jack R. Stephenson

Conservatory of Music

University of Missouri-Kansas City

Kansas City, Missouri 64111 Telephone: 816 276-2731

#### Editorial Committee:

Charles Emmons--University of Missouri-Columbia
Lewis B. Hilton--Washington University, St. Louis
June T. Jetter--University of Missouri-Kansas City
F. Bion McCurry--Southwest Missouri State University, Springfield, Missouri
Jack L. Ralston--University of Missouri-Kansas City
Douglas Turpin--Parkway Public Schools, St. Louis

#### Submitting Manuscripts:

County

- 1. Contributions to this journal should be sent to the editor. (See above for the address.)
- 2. The editors welcome contributions of a philosophical, historical or scientific nature which report the results of research pertinent to instruction in music in the educational institutions of Missouri.
- 3. Articles should be typewritten with double spacing throughout including footnotes, long quotations and itemized lists.
- 4. Footnotes should be placed consecutively at the end of the article beginning on a new page using double spacing between notes. Authors reporting quantitative studies may substitute a list of references for footnotes in accordance with practice followed in many scientific journals.
- 5. Manuscript style should follow recommendations made in the MLA Style Sheet. The Chicago Manual of Style should be followed in setting

6. All contributors are advised to keep a copy of any manuscript submitted. The Editorial Committee cannot be responsible for loss of manuscripts.

### Securing Copies:

- 1. Requests for the current and back issues should be made directly to the editor.
- 2. Costs including mailing: current issue, \$2.00. Back issues, \$1.00.

#### PREFACE

The Missouri Journal of Research in Music Education, published by the Missouri Music Educators Association, is devoted to the needs and interests of teachers of music in Missouri and the nation. This issue, Volume IV, Number 2, is the seventeenth to appear in as many years.

The members of the Editorial Committee are grateful to those readers who have written suggestions concerning the content of past issues and request that criticisms and suggestions again be sent to the Editor concerning the content of this issue. We strive for a reasonable balance among music theory, history, philosophy, aesthetics, and pedagogy.

We express our deep gratitude to the Missouri Music Educators Association for their financial support to make it possible to continue to publish the Missouri Journal of Research in Music Educa-

### The Editorial Board

A CURRICULUM FOR TEACHING MUSICIANSHIP TO SECONDARY SCHOOL STUDENTS: COMPOSING, LISTENING, ANALYZING AND PERFORMING

Lewis B. Hilton
Washington University, St. Louis, Missouri
U.S.A.

This paper was presented at the International Society for Music Education in London, Ontario, August 1978

For the past 26 years I have supervised and taught a class in musicianship to students ranging in age from 10 years to 18 or 19 on Saturday mornings from 10-12 a.m. at Washington University, St. Louis, Missouri. No tuition is charged but the students must pay for their own materials. They are recruited each fall by the simple expedient of sending a letter of explanation (see attached) with enrollment forms (see attached) to secondary school music teachers in the St. Louis Metropolitan Area. We average around 100 students each year. I have four assistants (graduate students in music education). We break the class into four or five sections on the basis of a very simple pretest on the traditional rudiments of music. After the first session or two we generally regroup for one reason or another. Our test is far from perfect nor do we need it to be, because of the nature of our curriculum. It is almost impossible to predict motivation,

Dr. Lewis B. Hilton founded the Missouri Journal of Research in Music Education in 1961 and was its editor for fifteen years. He will be on terminal leave for 1979-1980 after which time he will be retiring from his position as Chairman of Music Education at Washington University, St. Louis. Dr. Hilton has served his university and the state of Missouri since 1951. He has contributed greatly to the stature of music education in our state and in our nation.

—editor JRS

creativity, work habits, attributes which are actually more significant than, say, a knowledge of major and minor key signatures. I have taught the methodology of this class in workshops at several universities and to orientation workshops in public schools as well as building it into curricula of some school systems where I have served as curriculum consultant, and of course, my own university students are exposed to it. So while I do not make any claim for having measured statistically or have used any truly experimental method for testing its efficacy, I do have a great deal of experiential evidence of its success. But I should not try to generalize to any population whatever success I believe my students and I have had in employing this curriculum.

I am going to present a few sample projects in very simple language. Note that several more are listed in the addenda but not discussed here. It will be perfectly evident that while unique in some respects, it is highly eclectic in others (see Bibliography).

- I. Aims and goals (highly abbreviated)
- A. Open the students' ears to all kinds of music (e.g., see Schafer's Ear Cleaning in the bibliography).
- B. Encourage lasting musical behavioral changes, i.e., make some kind of music a central and active part of the students' lives.
- C. Encourage creativity.
- D. Develop cognitive, affective and motor skills.
- i. Develop ability to make value judgments and discuss them in musical terms N.B. these value judgements are not imposed on the students (or at least we try to avoid this).
- II. Materials and equipment needed (minimum for all projects)
- A. Four or five rooms, one of which should be large enough to accommodate the entire class.

- B. At least one tape recorder and record player in each of these rooms. One or two should be portable.
- C. Splicing equipment if possible.
- D. Three to four additional smaller rooms for small group and individual improvisation, rehearsal and discussion.
- . Recordings, blank tape.
- F. Any number of noise makers such as rulers
- . Blackboard.
- H. Whatever instruments the students may play (they furnish their own).
- . Staff paper and pencils.
- Workbooks or textbooks. We presently use Clough and Murphy / Melcher for helping to teach rudiments and traditional analysis (see Bibliography).
  - K. Grand pianos in each of the main classrooms if possible. The amount of physical space needed and the quantity of such devices as tape recorders obviously are adaptable to each particular situation.
- III. Procedures for all projects: (This is by no means a step by step account, but a selected sampling from the easiest to a rather advanced project. Some of the material may be omitted entirely or reviewed briefly depending on the sophistication of any of the several groups of students. A teacher may often adapt the procedures to suit his own preferences or what he perceives to be motivating factors or the lack thereof on the part of his class.)
- 4.8. I am presenting the first class meeting in some detail. The other projects have been selected as samples from the simplest to the more complex. Some may require two or three class sessions.

## PROJECT I. Orientation

Equipment needed: Tape recorder, a prepared tape, selected recordings, paper and pencil.

#### Procedure:

- A. Meet together as a group. Administer a brief pretest (15 minutes--key signatures, rhythmic and melodic dictation including 3 clefs, listening to brief excerpts of recordings or tapes, ranging from bluegrass, rock and jazz to perhaps Brahms, Stravinsky and Stockhausen. Ask the students to indicate their own preferences of music performed and to write a very brief synopsis of their musical backgrounds, although we already know some of this from their entrance forms. (See a sample of entrance form on page 24.)
- B. I preside over this session explaining what we want to accomplish; the emphasis will be on creativity (it does not matter whether they even know the names of the notes); we will all soon be composing and learning at each one's level; we do not care what music they like now but we will be listening to and writing a great variety of musics and, for those who need it, learning rudiments of notation and other fundamentals.
- 1. We will now listen to an excerpt of a tape, in this case Polarities, published by Roger Dean Co. and composed by me. A class discussion follows concerning the music they heard.
- 2. Introduce the dimensions of music upon which all aspects of this class will be based (see Addenda).

### Sound - Silence

Duration	Form
Timbre	Texture
Loudness	Simultaneity
Pitch	Simu

Style

- Play the same tape again. Then discuss it in terms of the dimensions of music.
- G. This procedure will have taken about one hour. By this time my assistants will have quickly examined the pretest papers and made temporary section assignments. These assignments are announced making it clear that they are temporary and can be changed by student-teacher agreement within the next few weeks. Students are given their room and teacher assignments and asked to bring their instruments (if they play any) to all subsequent class meetings.
- D. The concert. The last 20 minutes or so of this class, as with other classes every two or three weeks, are devoted to a live concert provided, in my case, by one of my own faculty members, some other faculty member from the University, or graduate students. Our first concert is usually a jazz concert (perhaps just plano and bass). The students are asked to listen to it employing the dimensions of music in interpreting for themselves the manipulation of these dimensions employed by the composers represented (as will be the case in all other concerts).
- N.B. If the live concerts are not always practical, tapes or recordings can be substituted, although they are not as satisfactory.

From now on, I will not be nearly so precise in my instructions, since space does not permit it and it is probably best for you to adapt the materials to suit your own situations. I shall, however, present a few specific strategies, which you may or may not want to use, depending on the makeup of your class. Please remember that, although this is all creatively oriented and built around the dimensions of music, traditional rudiments are not neglected, nor is some history of music. Insofar as rudiments are concerned, we rely heavily on individualized instruction as provided in such a programmed text as Clough (see Bibliography), although we attempt to introduce most of the

Let us now turn to some of the materials to be covered at four levels of sophistication in each of the classes in succeeding weeks. Remember that every two or three weeks the entire group comes together for a live concert. At least two of these concerts are made up of pieces composed and performed by the students themselves. These concerts are taped for later discussions as are the mini-concerts presented in each of the sections during the regular class sessions.

At first we will be concerned with the basic dimensions or concepts of sound and silence. One sample strategy will have to suffice.

PROJECT II. An elementary exercise in sound, silence and improvising notational systems.

Equipment needed: Rulers, tape recorder, surface (desk or floor) on which to hit rulers, metronome, paper and pencil.

Principal dimensions of music manipulated: Sound, silence, texture, loudness and softness (dynamics), and form.

Procedure: Set the metronome at 60. Select a student conductor and provide rulers for the "ruler orchestra." The conductor and all the members of the class practice beating in four using this pattern.

Start the metronome and the tape recorder and continue beating in four in time with the metronome. When it appears that the entire class feels comfortable with the pattern, stop the conducting. Stop the metronome and inform the performers and the conductor as to the pattern of adding and subtracting ruler-players for increasing/decreasing the loudness and changes in texture. The student conductor then recommences his the student conductor at the crucial points for adding and subtracting rulers as well as instructions for dynamic changes.

After eight beats, the conductor makes a signal with his left hand to indicate that five ruler-players are to start hitting their rulers very softly exactly in time with the conductor, i.e., one ruler beat of the conductor.

After eight soft beats of the rulers, the conductor signals with his left hand that the ruler-players should gradually increase their volume of sound. He does this by slowly lifting his left hand, palm up, for eight beats.

The conductor then signals five more ruler players to start playing at the same duration (tempo or rhythm) and loudness as the first five players. After four more beats, he again slowly raises his left hand (palm up) to signal all ten players to increase, gradually, their loudness.

After eight beats of the crescendo the conductor indicates with his left hand that all players should cease playing after the eighth beat.

The conductor continues the beat with his right hand for eight beats. On the ninth beat he signals all ten players to start playing loudly. They play at this level of loudness for four beats, then the conductor indicates with his left hand for silence (cut off). After eight beats of silence he cues all players to reenter playing loudly for one measure. Then he indicates eight beats of decrescendo.

The decrescendo lasts for eight beats.

The conductor then signals the second five ruler players to cease playing. The first five continue for eight beats in a gradual decrescendo.

five players to continue very softly for eight more On the ninth beat, the conductor signals the He then signals that all playing should beats.

He continues his own beat for eight beats of silence and then stops. Stop the tape recorder.

Reverse the tape recorder and then listen to the playback of this composition.

or notation in such a manner that a person unschooled in music reading could perform as a member of the of the piece with rulers using nontraditional signs ruler ensemble without any prior knowledge of nota-All members of the class now make up a score paper and pencil. Improvise your own score (symtion. Write down your version of the score with bols)

After everyone in the room has written his own version of the score, pass them around and discuss rately the sounds and silences of the composition? them. Which ones represent most simply and accuin this piece represented graphically and clearly in the score? Or is that possible. Why? Are all of the dimensions of music employed

the ten ruler performers in a completely different Discuss each dimension of the piece and how each was manipulated. Can you write and direct piece? Try it.

loudness. As you probably know, the traditional Notice that at the point where five rulers were added that there was a sudden increase in There is no way to way for representing crescendo is decrescendo ...

tury specialized in the crescendo and decrescendo and it became a mark of that orchestra's versatility. kinds of increase or decrease in loudness: sudden or gradual. Sudden changes were typical of Baroque (1600-1750) music. They are called terrace(d) We could write a simple score using non-traditional in practice or performance it probably always has been present in all musics. There are, then, two race(d) dynamics, or we could do it traditionally in this manner P F P. sforzando refers to only one note, however, while F means loud or forte). The whole idea of repreto represent terrepresent a sudden increase in loudness except by using the letter F or SFZ (forte or sforzando--Germany in the latter part of the eighteenth cenn the Western music notational system, although senting dynamics in a score is relatively recent dynamics. An orchestra at the court of Manheim symbols such as n this manner

Assignment: Compose a similar piece using some similar notation to be performed next week.

PROJECT III. The pentatonic scale and canons.

Equipment needed: Trumpet, grand plano, blackboard, students' instruments.

Principal dimensions to be manipulated: Pitch, duration, simultaneity, form and style.

Remember, too, either traditional or, at first, notation that these are sample strategies. For every one I mention, 10 more may be used. being studied as needed and composition During all of this time, rudiments are is proceeding in small groups, using invented by class members. N.B.

#### Procedure:

after the fact, i.e., they follow melodies; they do not precede them. A. Scales are theoretical arrangements of pitches

Discuss overtone series and demonstrate on

ä

- C. Discuss tunings of various cultures.
- D. Introduce a folk song employing a pentatonic scale--one of infinite possibilities of pitch arrangements.
- E. Use the black keys of the piano at first to introduce the sound of the so-called universal pentatonic scale, discussing whole and half steps as well as cents (100 per semitone).
- Compose (play, sing, and/or write) brief pentatonic melodies.
- G. Teach transposition of pentatonic scales and then the melodies already composed.
- H. Add a drone bass (bourdon).
- Experiment with rhythmic and timbre variants (by now this should be done in traditional notation).
- J. Add an additional section to the melodies.
- Repeat the first section--Form AB, then ABA.
- L. Record and play the tapes of the recorded pieces of the students and discuss them in terms of the dimensions of music. How could they be made more interesting? What creates more interest? Why the differences in opinions?
- M. Introduce the concept of a canon.
- N. Compose a pentatonic canon together (may be simple imitation or it may employ inversions).

Assignment: Compose a brief pentatonic piece for whatever instruments (or voices) are available. Be sure the transpositions and ranges are correct. (Give them a handout for this if necessary.) It may be in two or more parts and may be polyphonic (canonic) or homophonic.

Equipment needed: Blackboard, staff paper and pencil, Liber Usualis, opaque projector, recording of Gregorian or Ambrosian chant, excerpt of recording of Mass 1'homme armé of Dufay, recording of Ravel String Quartet, score of Variations on a Corsican Theme by Tomasi (woodwind quintet).

Principal dimensions of music involved: Sound vs.
silence, pitch, duration, simultaneity, form,
style.

Provide a chart of Dorian, Hypodorian, Phrygian, Hypophrygian, Lydian, Hypolydian, Mixolydian and Hypomixolydian modes.

#### Procedures:

- 4. Play a brief recording of modal, rennaissance polyphony (1'Homme Armé). Discuss the mode, the durations, the dynamics, the form, the timbres.
- B. Play a brief recording of a section of Tomasi, Ravel, etc. What is a transposed mode? How do you do it? Formula example Mixolydian on F.G:C as F:X = Bb:F Mixolydian, then contains Bb and Eb.
- . Play or sing a familiar tune in major.
- D. Change to Mixolydian with the same tonal center
- E. Perform it and discuss it principally in terms of the pitch dimension.
- F. Transpose it to any other tonal (modal) center using the same formula (not interval by interval)
- G. Perform as many pieces as possible and record them.

Assignment: Using your knowledge of the principles of canonic writing, compose a two-part canon employing inversion or retrograde in a transposed

mode. Have the parts copied and ready for performance. Be able to discuss your piece in terms of the dimensions of music.

Proceed with Clough as necessary. Do not forget the ear training tapes or records.

## PROJECT V. Serial music.

Equipment needed: Staff paper, ordinary paper, pencil, recordings of first few measures of Schünberg's Pierrot Lunaire and Wind Quintet, recording of first few measures of Wallingford Riegger's Concerto for Piano and Wind Quintet, handout of a matrix.

Principal dimensions of music manipulated: All.

#### Procedure:

- 4. Discuss the breakdown of tonality through the extreme chromaticism of the late nineteenth and twentieth centuries. (You may want to play a bit of Strauss or early Schönberg.)
- B. Discuss free tonality. Play a recording of a section of Schönberg's Pierrot Lunaire.
- \*C. Write the row from Schönberg's Woodwind Quintet on the blackboard. Review the concepts of O, R, RI, and I.
- ). Play a brief section of the first movement of the quintet and discuss.
- i. Hand out a prepared 12x12 matrix and discuss, dwelling on the importance of divisibility into parts. Play a recording of a one-line piece composed by you based on the matrix.
- F. Compose a one-line piece (perhaps a cadenza) together based on the matrix. Perform and tape it.

### Sample 12x12 matrix

# #5 ш G മ ۵ ш 晝 #5 < #5 G O #5 5 8 8 ڧ #5 #5

G. Assignment: Design your own matrix. We will then proceed to composition using your own matrix.

#### ADDENDA

#### Discography

String Quartet (Ravel)
Gregorian and Ambrosian chant
Variations on a Corsican Theme (Tomasi)
1'Homme arme (Dufay)
Pierrot Lunaire (Schönberg)
Woodwind Quintet (Schönberg)

**5** 

<sup>\*</sup>O = Original, R = Retrograde, RI = Retrograde Inversion, I = Inversion.

Abbreviated list of strategies arranged pro-ively. Asterisk indicates ones described in Each strategy may need several class periods for its completion gressively. this paper.

- Organizing sound and silence. Notational systems:
- Original and traditional. Scales, intervals and triads: Spelling, lis-
  - Polyphonic The pentatonic scale and melodies. listening and writing. tening and writing. . \*ع
- The modes and their transpositions: Listening, analyzing, composing. \*4.
- Whole tone, artificial and original scales and oolytonality. 2
- Introduction to Hindemith's Craft of Musical Composition و.
- Serial compositions. \*7.
- Other twentieth century compositional techniques.
- Rag, jazz and rock harmonies and rhythms. <u>о</u>
- 10. Introduction to the acoustical principles of musical instruments.
- 11. Developing your own compositional technique.

Hierarchy of the Dimensions of Music

Silence ì Sound Duration Timbre Loudness

Pitch

Texture Simultaneity

Form

Style

## Sample Letter for Recruitment

September 13, 1977

### Dear Colleague:

ship Classes at Washington University. Highly motiin theory and musicianship in the Saturday Musicianvated students aged twelve to eighteen are eligible. There will be two or three sections of theory, from whether or not they have been in a theory class beinterested in applying should indicate on the form We plan again this year to offer instruction beginning to advanced levels. Students who are

sight singing, directed listening, general musician-As usual, the theory classes will cover at the appropriate level of sophistication, ear training, ship, analysis, and considerable composition.

30. The first classes will be at 10:00 A.M. on October 8 in Tietjens Music Studio, 6500 Forsyth. There is no fee for any of the classes but there will be a nominal charge for materials which may run between \$8.00 and \$10.00 for the year.

If you have any questions would you please all me at 863-0100, station 4585. Thank you for your cooperation and interest. call

Very sincerely,

Professor of Music Lewis B. Hilton

enclosure

LBH/md

#### SATURDAY MORNING MUSICIANSHIP CLASS **WASHINGTON UNIVERSIT** APPLICATION FORM

NAME	AGE
STREET	
CITYSTATE	ZP CODE
HOME TELEPHONE	
SCHOOL ATTENDING	GRADE
HAVE YOU BEEN IN THIS CLASS BEFORE?	
PERFORMING MEDIUM (Voice, Trumpet, Plano, etc.)	etc.)
HOW LONG HAVE YOU STUDIED YOUR INSTRUMENT (or voice)?	AENT (or voice)?
IN WHAT PERFORMING GROUPS HAVE YOU HAD EXPERIENCE?	) EXPERIENCE?
R ECOMMENDED BY	
	(signature of High School Music Teacher)
APPROVED BY	
(signature of Parent or Guardian)	t or Guardian)

excused for sufficient reason to be given 48 hours in advance whenever possible. (If you have three unexcused absences in a row you will be automatically droppec from the musicianship class). I will complete all assignments during the year I understand that there is no charge for this course but that I will furnish my own materials (books, paper, etc., costing approximately \$8.00 a year). I promise to attend all sessions of the Saturday Class (10:00-12:00) unless to the best of my ability.

signature of applicant

Please detach and mail the above form to Department of Music, Box 1032 Washington University

St. Louis, Missouri 63130

The first class will be October 8, 1977 at 10:00 A.M., please plan to attend as this will be the only notification you will receive.

### Bibliography

Bartolozzi, Bruno. New Sounds for Woodwinds, London: Oxford Press, 1967.

Benade, Arthur. Horns, Strings and Harmony, Garden City, New York: Anchor Books, 1960.

Bruner, Jerome. Process of Education, Harvard Uni-

versity Press, 1959

. Toward a Theory of Instruction, Cambridge: Belknap Press, 1966.

Clough, John. Scales, Intervals, Keys and Triads, New York: W. W. Norton, 1964.

Comprehensive Musicianship: The Hawaiian Curriculum, Menlo Park, Addison-Wesley, various dates. Dennis, Brian. Experimental Music in Schools, London: Oxford University Press, 1970

Hoffer & Anderson. Performing Music with Understand-ing, Belmont: Wadsworth.

Juilliard Repertory Library, Cincinnati: Canyon Press, 1971.

Liber Usualis.

Madison, Thurber (ed.). Basic Concepts in Music Edu-cation (NSSE Year Book), Chicago: University Press, 1958. Murphy and Melcher. Music for Study, Englewood Cliffs, N.J.: Prentice Hall, 1960.

Palisca, Claude. Music Education: A Search for Improvement, Washington, D.C.: HEW, 1967

Paynter, John & Aston. Hear and Now, London: Cambridge, University Press, 1972.

Sound and Silence, London: Cambridge, University Press, 1970 Reck, David. Music of All the Earth, New York: Macmillan, 1977.

Schafer, R. Murray. Creative Music Education, New Vork: Schirmer, 1976

. The Composer in the Classroom, Toronto: BMI Ltd., 1965.

Thomas, Ronald. MMCP Synthesis, A Structure for Music Education, Manhattanville Music Curriculum Program USOE #6-1597, 1969 and 1972.

Torrance, E. Paul. Guiding Creative Talent, Englewood Cliffs, N.J.: Prentice Hall, 1962.

Van Bergeisk, Willem, et al. Waves and the Ear. Garden City, New York: Anchor Books.

### Dissertations

Casey, Robert. "Serial Composition-Wind Band," Washington University, Ed.D., 1971. Hagan, Tobias. "Structural Music Listening," Wash-ington University, Ed.D., 1971.

La Rosa, Joseph. "High School Curriculum for Development of Musicianship," University of Arizona, Ph.D., 1965.

Turpin, Douglas. "The Twentieth Century--Teacher's Guide," Washington University, Ed.D., 1972.

Warner, Roger. "A Design for Comprehensive Musicianship in the Senior High School Band Program," Washington University, Ed.D., 1975.

# RETENTION OF SONGS, STORIES, AND POEMS BY RETARDED CHILDREN

Wanda Lathom, Ph.D. University of Missouri-Kansas City Music Therapy, Conservatory of Music

#### Introduction

and monotony, appears to be the information theorist as an ordered disorder lying somewhere between comthere was a difference in the retention of materials of these events, and many more, are in an order to form a melody, and around a key cenevents. They are items of human behavior, composed If the message may be viewed as a time series with events which are measurable and distributed in time, the study of communication may be more objecter. Harmonies form progressions that are related to the key structure. Timbre is purposefully selected. Intensity is indicated by dynamic mark-ings. All occur with order through time to form plete randomness and complete redundancy." (1:110) when the structure of the message and the means of an attempt to communicate in a more efficient mangregations sing hymns as the choir processes down the aisle. All of these events, and many more, ar This study was conducted to determine whether therapists or teachers are constantly involved in by a person with a background of human experience Bands march to music, people dance to music, conwhich form music are not random. They occur in a which is often predictable. Composers do not se-The term "message" is presenting it were varied. The term "message" is used in the same manner as it is used in informa-The events which we call music, are human lect sounds at random. Frequencies are selected that is related to the culture, and performed by sometimes defined as a compromise between chaos predetermined order and in a rhythmic structure rhythmic patterns. Hiller suggest that "Music, tion theory, which is any communication that is transmitted from the source to the receiver.  $\ensuremath{\mathsf{M}}_{\mathsf{L}}$ people with similar cultural experiences. to the key structure. tive.

examples of ways that music may be used as an ordered phenomena that has an effect upon human behavior. Thus, each event within this unique time series, which is called music, has a probability function. The study of the probability of events is included in information theory.

A study of Isern (2) indicated that songs were retained better than stories. In Isern's study, 104 Ss were taught a song and a story. They were then tested for immediate, recent, and remote recall. The materials were matched for conceptual level and number of elements to be retained. Thus, the results were related to the selection of materials. The generalization should not be made that just any song will be retained better than any story. The structure and content of materials are of importance. The probability function is related to ability to predict the next event, which implies familiarity with the materials.

### Information Theory

Information, as it is used in information theory, may be defined as the degree to which an event is unlikely to occur. If the next event can be predicted with a high probability, it carries little information, if it can not be predicted at all it carries maximum information. Thus, the way the term is used in the theory does not imply meaning or usefulness of the symbol. It is merely a measure of the rarity of occurrence. Naturally the information measure would change from one culture to the next. The rarity of occurrence of each symbol may be mathematically defined. In this case, it is expressed in "bits," which is a contraction of binary digits.

Songs, stories, and poems that are novel, in the sense that they are less predictable in form, choice of symbol, and number of times concepts are repeated would have a high measure of information, as defined by information theory. They have little apparent repetition. It is hard to guess the next event.

#### Redundancy

The word redundancy is the exact opposite of information. If the next event is predictable and highly probable, it is considered to be redundant. This does not mean that it is wasted in communication. Rather, it may be viewed as insurance that the intended message will travel with an acceptable level of accuracy from the source to the receiver.

There is much redundancy in the harmony, melodies, and rhythm of western music. However, the ability to predict the rhythm, melody, or harmony requires repeated exposure to much music of a similar style. It becomes redundant only when one is familiar with many similar examples. Through the use of information theory, it is possible to mathematically derive the degree of redundancy, just as information may be measured and expressed in binary digits. However, at this time, it is difficult, if not impossible, to compare "bits" of information in different types of media.

In this study, the other forms of media that were used were stories and poems. Words also have a predetermined order. Spelling rules are formulated to determine letter order and grammatical rules determine the order of connecting words. These are the mechanics of language and can be studied by concepts of information theory because the probability of events may be defined for members of a similar language group. However, there is also content of ideas and expression. This, too, can be studied by looking at the sequence of words and noting the probability of occurrence of the entire sequence that forms an idea. In stories, redundancy is added by having similar events repeated by central characters, repeating certain phrases of words. Iimiting vocabulary so the array is within the ability of children. It is this later form of redundancy that was used in selecting stories for this study.

Redundancy is also measurable in poetry. The primary ways of making poetry redundant are through

rhyme, which places restrictions on the selection of words in the total vocabulary array, form, which sets a pattern that forms verses, and the rhythm or poetic meter. Ideas and events or phrases spoken by main characters may also repeat. Because an exact measure of "bits" of information in media would not be practical and would not be a basis for comparison of information or redundancy among media, the extremes of information and redundancy and one sample that was intermediate were used rather than precise

### Experimental Design

#### Materials

Songs. Three songs were chosen by an expert in children's music who had had many years of experience in teaching songs to children. She was asked to choose three songs which would represent three levels of repetition. Repetition of musical phrases, lyrics, rhythm, and harmonic patterns were considered.

Stories and poems. The stories and poems were selected by an expert in children's literature, with many years of experience in telling stories and teaching poems to children. She was also asked to choose the stories and poems according to the extremes and middle of three levels of repetition. Ways in which repetition is used in stories include repetition of events and phrases of words. Many children's stories have one main character who performs a series of very similar events, with repetitious results of the actions. Poems also have repetition of events, as well as rhyme which limits selection of words and rhythm in the form of meter.

The materials were also submitted to experts in information theory, J.R. Pierce and E. N. Gilbert of the Bell Telephone Laboratories. Both have had considerable experience in the area of information theory. They were asked to judge the materials for levels of redundancy. Their judgement agreed with

that of the experts in children's literature and music, but they both noted that simplicity is as important a variable as repetition. Pierce agreed that "a mechanical test of redundancy would be difficult and probably unreliable." (3)

#### Subjects

The subjects for the study were institutionalized retarded children with a measured intelligence level of II or III (two or three standard deviations below the mean of 100). Eleven Level II and eleven Level III Ss were chosen from each of the three hospitals participating in the study (N=66). No attempt was made to choose an equal number of boys and an equal number of girls. However, other criteria for selection included hearing ability which was adequate to hear the songs, stories, and poems; speech ability which was adequate to take a verbal test; ambulation adequate to come to the music area to learn the materials; and some previous experience with songs, stories, and poems. The type of poetry that most of the Ss had been exposed to consisted of nursery rhymes. The mean age was 13.5 years.

# Method of Teaching Songs, Stories, and Poems

Since Ss were chosen from three different hospitals and taught by music teachers in each of these settings, the variable of difference in presentation was quite important. To control for this, an exact procedure was sent to each teacher. Before the teaching began, the procedure was reviewed with the teacher to be certain that the exact manner of presentation was clear. Each teacher was observed, to determine that the procedure was clear and exactly the same script was followed in each of the three settings.

The method of teaching the materials was reviewed by the same experts who had selected the materials. Both were very familiar with teaching

methods used by elementary school teachers. Both experts agreed that the methods used were similar to those usually used to teach songs, stories, and poems to children and would be adequate for the study.

Order of presentation was also an important variable. If all the songs were presented after the stories and poems, it might be anticipated that they would be retained best because they were learned more recently. To control the effect of this variable, the materials were presented according to systematic randomization. On each day of the teaching schedule, one song, one story, and one poem was presented. Therefore, it took three days to present all three songs, stories, and poems. Ss were seen for half-hour sessions, so ten minutes could be spent on each song, story, and poem during each session. The teaching period lasted six days, which allowed the entire procedure to be presented twice.

Equipment. The equipment needed to teach the materials included only a piano for use in accompanying the songs, eleven chairs for the Ss, and pictures to illustrate main concepts in the materials.

### Testing for Retention

## Description of the Test

The retention test was divided into three parts: Recall, Chaining, and Verbal Concepts. The first was selected because it did not require a verbal response. Many retarded children score higher on tests that do not require verbalization. In testing retarded children, it is common to include items that can be answered by a pointing response or some type of selection from a group of possible answers. Thus, the first section of this test required the child to respond by pointing to items in pictures depicting important events in the songs, story, or poem. Since the ability to

speak and understand a verbal test was included in the criterion for selection of Ss, the last two parts of the test for retention required verbal responses. Each subject was tested individually. The test involved recalling items of information about the song, story, or poem. The same number of questions was asked for each type of media, and the author attempted to keep all questions simple. The answer could be given by pointing to related pictures or with single word responses.

## Statistical Analysis of the Data

### Differences in Groups

Intelligence and Age. Because the Ss were retarded, and of different age groups, the factors of intelligence and age had to be noted in evaluating the retention scores. When the means of these groups were evaluated, using a Hotelling's T-Square, it was evident that older and more intelligent Ss tended to score higher than younger and less intelligent Ss. This is the conclusion that might have been anticipated, when the overall amount retained is considered.

# Difference in Media and Type of Media

The previous analysis only considered the amount retained, not the difference in retention of various kinds of materials. A treatment-by-treatment-by-subjects design was used to evaluate the differences among retention scores for songs, stories, and poems (media) and redundant, intermediate, and novel (type) forms of each. Since the previous evaluations by groups indicated that Ss with MI Level II and those with MI Level III were separate groups, a separate statistical analysis was made for each MI Level. The previous analyses also indicated that younger (age thirteen or younger) and older (age fourteen or older) Ss were two separate groups. Thus, age was considered in the treatment-by-treatment-by-

35

subjects design by including both younger and older Ss in each MI Level. Level II included fifteen older Ss and seventeen younger; Level III included sixteen older and eighteen younger Ss. Thus, factors of intelligence and age are combined in the following tests.

TABLE I

TREATMENT-BY-TREATMENT-BY-SUBJECTS DESIGN FOR LEVEL II SS

Source		SS	ğ	MS	×	٠
		76 336	206		,	,
Total		42222.34	720	•	ı	)
Subjects		1568.90	35	1	ı	ı
Media		112.87	7	56.435	23.419	<ul><li>.01</li></ul>
Type		99.46	7	49.73	2.902	<b>&gt;</b> .05
Media X IV	7De	135.82	4	33.955	9.508	<.01
Error Me	dia		99	2.408	•	1
Error Ly	.pe		99	5.225	ı	•
Error Me	Media X Type		128	1.1693	•	1

#### TABLE II

TREATMENT-BY-TREATMENT-BY-SUBJECTS DESIGN FOR LEVEL III SS

Source	SS	đ£	MS	Ŀ	4
lotal	3962.73	296	ı	ı	1
Subfects	3244.95	35	ı	ı	ı
Media	91.05	7	45.525	12.93	<.01
Type	48.06	7	24.03	1.32	<ul><li>.05</li></ul>
Media X Type	41.13	4	10.28	6.71	<.01
Error Media	225.40	99	3.52	ı	•
Error Type	48.06	99	18.24	•	1
Error Media X Type	195.42	128	1.53	•	•

The difference in the three kinds of media were statistically

<u>ن</u>

ħ.

significant beyond the .01 level. Further interpretation of the

difference may be made by looking at the combined mean scores.

TABLE III

MEANS OF MEDIA PROM COMBINED TYPE SCORES

Song X	Story X	Poem X
Level II, N = 33 9.404	8.869	8.060
Level III, N = 33 7.778	6.455	6:859

materials, but the difference in the means must be evaluated statistically. indicate the source of difference in the means, which contributed to the significant F score for media on the treatment-by-treatment-bysubjects design. Table IV gives the results when the Scheffe Test Therefore, the Scheffe Test was used for multiple comparisons to The means for song materials are higher than those for spoken

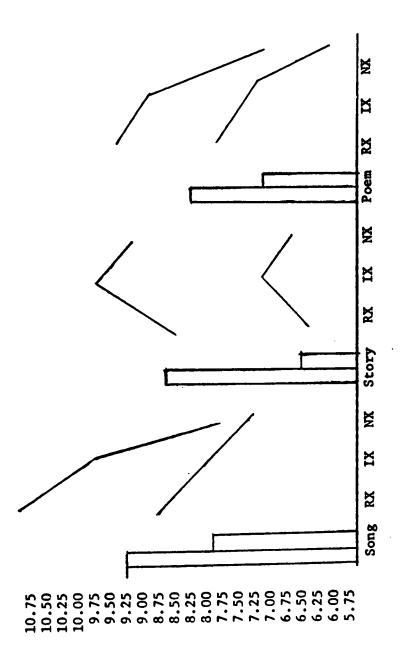
was used.

TABLE IV

SCHEFFE TEST FOR MULTIPLE COMPARISONS IN THE ANALYSIS OF VARIANCE

```
Level II, N = 33
                 Comparison I (N Song = 33, N Story = 33)
                                              F, 2 \text{ and } 64 \text{ df} = .99
                    Song \overline{X} = 9.404
                    Story X = 8.869
                                                             P > .05
                             - 2.408
                 Comparison II (N Song = 33, N Poem = 33)
                                          F, 2 and 64 df = 6.25
                    Song \underline{X} = 9.404
                                                             P < .01
                    Poem X = 8.060
                             2.408
                    MS
                 Comparison III (N Story = 33, N Poem = 33)
                                             F, 2 \text{ and } 64 \text{ df} = 2.26
                    Story X = 8.869
                                                             P > .05
                    Poem X = 8.0600
                    MS
                             -2.408
Level III, N = 33
                 Comparison I (N Song = 33, N Story = 33)
                                         F, 2 and 64 df = 4.14
                    Song \bar{X} = 7.778
                                                             P < .05
                    Story \overline{X} = 6.455
                             = 3.52
                 Comparison II (N Song = 33, N Poem = 33)
                                          F, 2 and 64 df = 2.00
                    Song \frac{X}{X} = 7.778
Poem X = 6.859
                                                             P > .05
                             = 3.52
                    MS
                 Comparison III (N Song = 33, N Story = 33)
                                              F_{*} 2 and 64 df = .39
                    Story \overline{X} = 6.455
                                                             P > .05
                    Poem \overline{X} = 6.859
                             = 3.52
                    MX
```

The media-by-type interaction is of greater importance and can be better understood by examination of the following graph.



the means for the three levels of repetition within the media. R (redumintermediate, and novel types within each media. RX, IX and NX indicate each pair indicates means for Level II Ss and the lower bar in each pair Graph of means of song, story, and poem media, and redundant, and the lower lines indicate MI Level III Ss. The bars are indications dant) is most repetitious, I (intermediate) is less repetitious, and N The upper lines indicate MI level II Ss of means for media when all three types are combined. The higher of indicates means for Level III Ss. (novel) is least repetitious. FIGURE 1.

691

On the treatment-by-treatment-by-subjects design, the differences in the type of media were not significant. This was not surprising, since the raw scores for type were combined from the three types of media, e.g. to get a total score for redundant type, the scores from the redundant story, song, and poem were combined. The same is true for total scores for intermediate and novel type. Since there was considerable difference in media, these differences cancelled out differences in type. Thus, the differences in type were not statistically significant at the .05 level.

The media-by-type interaction was significant at the .01 level. This significant interaction would indicate that retention was affected by both the kind of media and degree of repetition within the media. For example, the raw data indicates that the redundant song was retained best with considerable consistency. From the significant interaction effect, this must be interpreted as the result of the combination of the two variables, type and media.

#### Discussion

The main purpose of the study was to determine whether or not materials that had apparent organization were retained better than those which had less apparent organization when they were presented to retarded subjects. Since the mean scores for the three types of each material (redundant, intermediate. novel) were not significantly different, the degree of organization may not be viewed as an independent factor. Rather, from the statistically significant interaction of media and type, it may now be stated that for subjects in this study the degree of organization within each type of media is an important consideration in retention of materials, but it does not seem to function in the same way for all materials. It should be noted that one cannot equate information or organization

across three types of materials, but three levels of repetition were agreed upon by experts in the literature as well as experts in information theory.

those with the least apparent organization and repetition were retained the poorest. This is the order repetition were retained best. Those that had been seemed to facilitate retention in the same way that easier to classify or enter into memory. Materials ated as intermediate were retained next best and fined by information theory, are less predictable that might have been anticipated from concepts of that would be high in information content, as dewith the most apparent organization and the most naterial is apparent, it is more predictable and redundancy is used to facilitate transmission of In both the songs and poetry, the materials information theory. If the organization of the and harder to retain. The excess of repetition other kinds of messages.

Because the total mean score for all three songs was much higher than the total mean score for all three poems, it seems that more cues may have been given from the music. In music, predictability may come from rhythm, melodic sequence, harmonic progression, consistent timbre, and style or form. Materials that were predictable seemed to offer more cues for retrieval in the decoding or recalling of materials. The study should be repeated for further representation of songs, stories, and poems for each level of repetition. This would control for interest, previous familiarity and any specific variance associated with a particular type of song, story, or poem.

The stories did not follow the same pattern of retention as the poems and songs. All of the groups retained the story that was intermediate in apparent organization best, the story with the least apparent organization next best, and the most redundant story the least well. This would seem to indicate that in story materials, too much redundancy may lead to boredom or less attention. Gilford suggests that

"Maybe a child whose mind wanders needs frequent surprises (lack of redundancy) to keep him interested." (5) This certainly seemed to be true in the stories. This different pattern in the stories would also suggest that rhythm or meter may have been of considerable importance in holding attention in the songs and poems.

in the structure of the materials would provide more The additional cues from the repetition incorporated This is one of the ways in which information theory studies are needed for human channels that distort has been used to improve transmission of a message over a mechanical channel. If there is distortion hallucinations or fantasies. It seems likely that necessary to assist these individuals in learning. a high degree of redundancy in materials would be hearing loss, failure to see important ancillary cues due to a loss of sight, or distortion due to sage. This may be from faulty reception due to a opportunities to accurately receive the message. Many exceptional children distort the mes-(noise) on the channel, redundancy must be increased for maximum transmission. Additional materials. Although all of the Ss of the study were retarded, the conclusions seem equally applicable for young children of normal intelligence. Comparison of retention of normal and retarded subjects would be an important continuation of this study. However, the task is very difficult. Belanot (in Ellis, 1966) listed the following variables that must be considered for comparison of normal and retarded group's retention: "difficulty and meaningfulness of materials; degree of learning; frequency and intensity of presentation; length of retention interval; ability level (as well as eticological factors); type of task (motor vs verbal; concrete vs abstract); relative distribution of learning; and degree of verbal mediation." (6) It is not possible for the teacher to control the the brain) but it is possible to control the structure

zation and teaching for greater awareness of the or-ganization can facilitate predictability. The results ing method). Choosing materials with apparent organiof the message and the manner of transmission (teachof the study seem to indicate that this is important in achieving maximum retention.

#### References

- Jaren A. Hiller, Jr. "Computer Music." Scientific American, 201:6 (December, 1959), p. 110. LeJaren A. Hiller, Jr.
- Therapy, 1958. Erwin H. Schneider (ed.), Allen "The Influence of Music Upon the Betty Isern. "The Influence of Music upo Memory of Mentally Retarded Children." Press, Lawrence, Kansas 1959. 3
- J. R. Pierce. Private correspondence with the author. ო
- A. Scheffe. "A Method for Judging All Possible Contrasts in the Analysis of Variance." Biometrika, 40 (1953), pp. 87-104. H. A. Scheffe.
- Private correspondence with the E. N. Gilford. author. <u>ئ</u>
- "Long-Term Memory in Mental Re-Research in Mental Retardation. Norman R. Ellis (ed.), Academic Press, New J. M. Belmont. tardation." York, 1966.

ė.

#### THE RELATIONSHIPS OF SELECTED ACADEMIC, MUSICAL, AND BACKGROUND FACTORS TO GRADES OBTAINED IN UNDERGRADUATE MUSIC THEORY AND EAR TRAINING COURSES

### Sandra J. Emig, Instructor of Music William Jewell College Liberty, Missouri

The relationships of academic, musical, and pergraduate music theory and ear training courses have nearly all colleges and universities, educators and administrators have sought to delineate these relacounseling those students not likely to succeed in ong been a concern of collegiate music educators. sonal background factors to performance in undertionships in order to assist them in locating and in music theory and ear training is a requirement these courses and thus not able to receive an un-Because successful completion of basic sequences for obtaining an undergraduate music degree at dergraduate degree in music.

and background factors. Second, most of the investigators did not examine the relationships existing applied study, age, and gender. However, they did not divide the factor of academic ability or achievetheory and ear training program. Rather, they often ment into various areas of study (e.g., English, Mathematics, Science), as they did with the musical factors and the entire required basic undergraduate Therefore, taking these past limitations courses, among them melodic, harmonic, and rhythmic There have been two major limitations in simiaptitude, musical influences in the home, years of such as sightsinging, dictation, or harmony, occaar investigations conducted in the past. First, previous investigators have investigated numerous musical and personal factors which may influence examined only one or two aspects of the program, sionally for periods as short as one quarter or semester. Therefore, taking these past limitati between these musical, academic, and background final grades in music theory and ear training

into account, this study was designed to investigate the relationships existing between an academic test battery, a music achievement test battery, personal background information, and the subsequent performance of a large sample of students in the basic undergraduate music theory and ear training courses required of all undergraduate music majors.

clusive. The predictor variables relating to these cerning students beginning the music theory and ear In this study conducted at The Ohio State Uniponent raw scores obtained from The Ohio State Unitraining basic sequences between 1969 and 1974 indent ability in four distinct areas of academic study, namely English, Mathematics, Social Studies Second, music achievement was measured by the com-First, academic ability was measured by the component standard scores obtained from The American formation. Third, background information was collected concerning each student. This information Skills, Music Recognition, and General Musical Inversity School of Music, data were collected con-State University by Dr. William Poland, it comprises three distinct tests: Aural and Notational College Tests (ACT). A nationally-administered test battery, the ACT is designed to measure stu-Comprehension, and Natural Science Comprehension. versity Music Placement Test Battery. A locallyincluded age, sex, gender, years of private study on the principal instrument or voice, years of school theory, history/appreciation, and performstudents were classified into three categories. administered test battery developed at The Ohio private piano study, and participation in high ing ensemble courses.

The criterion variables in this study were the student grades obtained in the first, third, and sixth quarters of the basic two-year sequences in music theory and ear training required of all undergraduate music majors. Areas of concentration in the music theory courses include fundamentals, harmony, analysis, and creative writing. Those of the

ear training courses include sightsinging, dictation, and keyboard harmony.

The data were then subjected to statistical analysis by The Ohio State University Statistics Laboratory, using the facilities of The Ohio State University Instructional and Research Computer Cen-

Pearson product-moment coefficients of correlation (r) between the predictor and criterion variables were computed. A summary of these correlation coefficients comprise Table 1.

lated the highest with sixth quarter music theory grades, followed by the Aural and Notational Skills and the Music Recognition test scores. Of the back Of the component tests of the Music Placement Test Battery, the Aural and Notational Skills test score any time correlate as well with music theory grades private piano study had a significant coefficient of correlation with music theory grades (at the .01 The predictor variable which consistently corother correlations calculated for a given quarter. than did any of the musical or background factors. ACT correlated higher with the music theory grade evel). However, this correlation coefficient was as the ACT Mathematics score, the relative imporremain constant through the sequence, however, as the General Musical Information test score corre-While the other ACT component scores did not at correlated the highest with first quarter music theory grades, followed by the Music Recognition and the General Musical Information test scores. related the highest with grades in music theory courses was the ACT Mathematics score, and these tance of all the ACT scores to theory grades increased through the sequence. This is evidenced by the fact that by the sixth quarter of the sequence, each of the four component scores of the This ranking of correlation coefficients did not ground information collected, only the years of correlations were always larger than any of the

Table 1

PREDICTOR VARIABLES AND GRADES IN MUSIC THEORY AND EAR TRAINING COURSES PEARSON PRODUCT-MOMENT CORPPICIENTS OF CORRELATION (r) BETWEEN SELECTED

		1 .:		الماماما	الماسام		باب م، م	n 000
		6th Qtr	H	2 6 2 2	.59	7	- 8 2 2	0.00
	ng	6th	Z	491 491 491	553 553	i L	553	553 553 553
	Ear Training	Qtr.	H	35 26 26 26	13   2   2	3	5 6 2	0.00.00
	Ear	3rd	z	591 591 591 591	659 659 659	i i	659 659	659 659 659
ables	sə	Otr.	H	.34 .27 .28	91199	Ų	6 2 3	2 0 0 0
Criterion Variables	Course Grades	lst	Z	946 946 946 946	1084 1084 1084	-	1084	1084 1084 1084
iterio	Cours	6th Qtr.	r	.35 .37 .32	.23 .17 .26	ć	2 2 2	0.02
빙	l	6th	Z	496 496 496 496	559 559 559	<u>.</u>	55.59 55.59 55.59	559 559 559
	Α.	3rd Qtr.	н	.36 .25 .25	117 12	Š	15	.03
	Theory	3rd	z	630 630 630 630	704 704 704	Š	5 5 5 5 6 5 5 6 5 5 7 7 5	407
		lst Otr.	ы	38	25 23	ć	5 6 1	0.00.00
		1st	z	1008 1008 1008 1008	1165 1165 1165	3366	1165	1165 1165 1165
Predictor Variables				ine American College 16515 Scores English Mathematics Social Studies Comprehension Natural Science Comprehension	The Ohio State University Music Placement Test Bat- tely Scores Aural & Notational Skills Music Recognition General Musical Information	Background Information	Gender Years of Plano Study	Instrument or Voice H.S. Theory H.S. History/Appreciation H.S. Ensembles

NOTE: Underlined correlation coefficients are significant to the .01 level

less than the correlation for either musical or academic test scores and music theory grades in any given quarter.

Although an academic predictor variable, the ACT Mathematics test score, correlated the highest with music theory grades; a music predictor variable, the Aural and Notational Skills test score, consistently correlated the highest with ear training grades. Correlation coefficients computed between the Aural and Notational Skills test score and ear training grades from each quarter of study were much larger than any computed in relation to the music theory grades. The General Information and Music Recognition test scores correlated less with ear training grades than did the Aural and Notational Skills test score. Of the four components of the ACT, the Mathematics score had the highest correlation coefficient with ear training grades; however, all four ACT scores' correlation coefficients with ear training grades were in approximately the same range as those of the Music Recognition and General Musical Information test scores for any given quarter. The only background predictor variable which consistently correlated significantly at the .01 level with ear training grades was the number of years of private piano study, and it correlated generally as well with ear training grades as did some of the academic ability and music achievement predictor variables.

Once the Pearson product-moment correlation coefficient analysis was completed, stepwise multiple regression analyses were computed to determine various multiple coefficients of correlation (R) with each of the course grades. Table 2 contains a summary of the multiple correlation coefficients obtained between the course grades and four groupings of predictor variables.

The multiple correlation coefficients between the collective ACT scores and music theory grades were always at least as large as the respective multiple correlation coefficient between the

179

Table 2

MULTIPLE COEFFICIENTS OF CORRELATION (R) BETWEEN SELECTED GROUPS OF PREDICTOR VARIABLES AND GRADES IN MUSIC THEORY AND EAR TRAINING COURSES

Predictor Variable Batteries					빙	terion	Criterion Variables	bles				
		į	Theory	ž.	1	Course	Course Grades	8	Ear	Ear Training	50	
•	lst	lst Otr.	3rd	3rd Otr.	6th	6th Otr.	lat	lst Otr.	3rd	3rd Otr.	6th	6th Otr.
•	Z	æ	Z	<b>K</b>	Z	æ	Z	æ	Z	<b>~</b>	z	æ
The American College Tests Scores	1028	.51	899	•36	496	.45	988	4.	634	.37	490	.33
The Ohio State University Music Placement Test Battery Scores 1189	t 1189	.47	747	.36	559	.29	1130	•63	706	.53	552	49
The American College Tests and Music Placement Test Battery scores	1028	.59	668	.43	496	.47	886	.67	634	.57	490	.52
The American College Tests scores, Music Placement Test Battery scores, and All Background Information	973	.61	641	.45	473 .48	84.	948	.67	615	65.	471	55.

NOTE: All multiple correlation coefficients are significant to the .01 level

collective Music Placement Test Battery scores and the music theory grades in any given quarter. addition of the Music Placement Test Battery scores to those of the ACT offered little information to increase the multiple correlation coefficient. Indeed, the addition of the Music Placement Test Battery scores to those of the ACT offered so little new information concerning the multiple correlation with sixth quarter music theory grades that, statistically, their presence in the multiple correlation coefficient of the sixth quarter music theory grade was not necessary. Finally, the addition of the background information to the scores obtained on the ACT and Music Placement Test Battery did not significantly increase the multiple correlation coefficient with any of the music theory grades.

Ouite different results were determined concerning the various multiple correlation coefficients with grades in the basic ear training courses. lectively the ACT scores correlated well with these grades, but the addition of the Music Placement Test Battery scores to those of the ACT always significantly increased the multiple correlation coefficients. The multiple correlation coefficients between the collective Music Placement Test Battery scores and ear training grades, on the other hand, were much larger than those between the collective ACT scores and the ear training grades. As a result, the inclusion of the ACT scores with those of the Music Placement Test Battery did not produce large increases in the multiple correlation coefficients. And once again, the addition of a student's background information to the scores obtained on the ACT and Music Placement Test Battery offered so little increase in the multiple correlation coefficients that, statistically, its inclusion in the multiple correlation coefficients of the ear training grades was not warranted.

In summary, the inclusion of <u>The American</u>
<u>College Tests</u> component scores as measures of
<u>specific areas of academic ability offered larger</u>
<u>correlation coefficients with grades in undergraduate</u>

music theory and ear training courses than had been suggested in results in earlier studies. Both the Pearson product-moment correlation and stepwise multiple regression analyses illustrate that the academic measures of the ACT scores correlated most highly with the obtained grades in the music theory courses, while the musical achievement measures of The Ohio State University Music Placement Test Battery scores correlated most highly with grades in the ear training courses. Individually or collectively, the personal background information offered far less information concerning subsequent student performance in undergraduate music theory and ear training courses than did either the ACT or Music Placement Test Battery scores.

This paper is based on the author's dissertation, "The Relationships of Selected Academic, Musical, and Background Factors to Grades Obtained in Freshman and Sophomore Theory and Ear Training Courses at The Ohio State University" (Ph.D., The Ohio State University,"

# AMERICAN TUNE BOOK COMPILATIONS USING SHAPED-NOTE SYSTEMS, 1801-1860

# A FORERUNNER OF AMERICAN MUSIC EDUCATION

David Lamar Oakley

### Introduction

ment in terms of theoretical context, teaching ideas, and geography of movement. However, it should be appeared in 253 editions. The document also includes a National Endowment for the Humanities Summer Seminar in Music History, "Music in the United States Before the Civil War," directed by J. Bunker Clark at the University of Kansas, Summer 1978. The docuhas presented a comprehensive view of the movenoted that since this paper was prepared, the Insti-TUNEBOOKS by Richard J. Stanislaw, published October data on 31 compilers of seven-shaped systems appearwith aspects of the shaped-note movement, no single ing in 80 editions. In addition, appendices in the books during the period to well over 400. Although 1801-1860, by David L. Oakley, 96 pp., prepared for tions by Andrew Law. These and some presumed edi-tions bring the total number of shaped-note tune document, AN ANNOTATED CHRONOLOGY OF TUNE BOOK COMdocument account for an unusual number of publica-. The data in this paper are extracted from the PILATIONS USING FOUR AND SEVEN SHAPED-NOTE SYSTEMS tute of Studies in American Music has announced a monograph, A CHECKLIST OF FOUR-SHAPED SHAPE-NOTE various dissertations and publications have dealt systems whose work produced 90 compilations which ment includes data on 84 compilers of four-shaped Work

ture study of the development of music of a Renaissance found in rural America where for a while shaped-note music was the mainstream of music. This paper will emphasize the American enterprise of music education as reflected in the entrepreneurs who brought and sold music to the people.

53

## Terminology and Limitations

This paper is limited to character notation of geometric shapes, that is, shapes which include plane space within a parameter. Although musical character notation of the period included other types of symbols, as numbers or letters placed upon a staff, they are not included in this study. I am concerned with the notion of symbolic generalization and the degree to which the brief success of the shaped-note movement and its evolvement reinforces the theory of human behavior called "discovery theory." This paper does not deal directly with the theory, but provides a chronology to aid in that study.

Certain terms are important. The person(s) who compile, edit or amass the various published collections are called compiler(s) and the results are called compilations. The term shaped notes is used rather than "character notation" because of the exclusion of other than plane geometric shaped notation from this study. In some instances, these have been called "patent notes" because the compiler or the printer sought patent rights on the process of printing these shaped notes. Almost all of the compilations have a type of musical setting sometimes called a "fugueing" tune, sometimes spelled "fuguing" tune and sometimes spelled fuging tune. The latter term will be used in this study for that class of tune settings. Most of the compilations have pages of instruction about music in the first part of each volume. Various authors call these the "theoretical introductions"; however, these sections will be used by the compilers.

References in the paper are bibliographic and hence no footnotes are used. Locations of volumes are identified by library symbols used by Shaw-Shoemaker.

# Factors Leading to Shaped Notes

The artistic level of congregational singing in the majority of churches in New England in the seventeenth and early eighteenth centuries was so low that an effort was made to improve its quality. Between 1717 and 1721 an enterprise called the singing school was developed outside of the churches regular liturgy or service times, but in the hopes that trained singers would provide a congregation that could worship in part by singing of songs as well as in silence.

Itinerant teachers of singing visited congregations each evening for periods of time of two weeks to a month and conducted singing schools. But in New England, about 1800, an influx of European musical selections replaced many short and replaced the singers as the dominant producer of musical sound in some churches and the choir in others. The men surrendered the melody line to the women. Men had been a mainstay of the singing school. The itinerant singing school teacher moved from New England to the West through Pennsylvania and to the South through Virginia. He found it pragmatic to have for sale and distribution a single volume which contained all the rudiments of the "science of music" as well as a sufficient repertory of tunes.

The model compilation had both English and American origins but it led toward a fairly complex study of the rudiments of music. The new singing school teacher also found it pragmatic to include only such rudiments as were necessary to teach persons to sing at sight in a very short period of time. The concept of shaped notes removed several mental steps between seeing the note and singing it. With shapes it was not necessary to learn the names of lines or spaces or key signatures. From the outset, almost any learner met with some success, provided the music was not too complex and the music was "tuneful."

The rudiments section of shaped-note compilations included:

- 1. The "gamut" or scope of human singing range explained.
- 2. Rules to find the "mi" or leading tone.
- The shapes of the notes and their constant relationship to "mi".
- . The syllables assigned to each shape as faw, sol, law.
- How to sing in any key by just shifting the "mi".
- 6. The moods of time, meaning the speed and meter in which the tunes were set.
- 7. Other characters used in music as <u>rests</u>, the tie, and hold.
- 8. A few comments about expression as when to sing loud or soft.
- 9. Lessons for tuning the voice, meaning some vocal exercises in scalar or intervallic patterns.

The rudiments could occupy as few as three pages or as many as fifty. The majority had from five to ten pages.

The music section of shaped-note compilations usually included simple hymns in two, three or fourvoice settings, fuging tunes which were short pieces with polyphonic sections and anthems and other set tunes which were generally longer through-composed pieces. The texts were almost always based on sacred materials.

The Civil War, the emergence of denominational church music boards and public school music seeking more sophisticated music, and new forms of entertainment caused the rapid decline of the singing school and its literature after 1860. A few compilers continued to print in this older style of music after 1860 and they are listed in this paper.

The Sacred Harp has endured through singing societies devoted to its preservation as have a couple of other compilations. The seven shaped-note system is used to this date by many "gospel" music publishers. But the literature has changed both in text and in manner of print. There are singing schools today but they are taught by teachers who have been trained in "normal schools" for singing school teachers.

For a considerable portion of the population in the Shenandoah Valley, Pennsylvania, Ohio, Kentucky, Tennessee, and the deep South the shaped-note compilation was the mainline of American music from 1801 to 1860.

# Highlights of the Enterprise of the Four-Shaped System

william Little and William Smith in 1801 presented a method of self-teaching the science of music. More than 50 editions of the Easy Instructor exist. The first known edition is dated at 1801. Because the subsequent compilations offer changes of various sorts, a somewhat extensive annotation is offered for the Easy Instructor.

#### 1801

Milliam Little and William Smith. The Easy Instructor, or A New Method of Teaching Sacred an improved Plan, wherein the Numing and Timing of the Notes are familiarized to the weakest Capacity. With a choice Collection of Psalm Tunes and Anthems from the most celebrated Authors, with a Number composed in Europe and America, entirely new; suited to all the Metres sung in the different Churches in the United States. [Philadelphia, 1801]. [2], 105 (i.e. 106) p. [No. 12 is repeated in paging]. CtHC. (The abbreviations of locations are taken from the National Union Catalog issued by the Library of Congress.)

Apparently it was Charles and George Webster, and Daniel Steele of Albany who began printing shaped-notes. It is not until 1848 that credit is given for "patent notes" and this is contained in the preface of William Hauser's compilation, The Hesperian Harp. According to Jackson this credit is given to Little and Smith (White Spirituals, p. 14). The copyright was obtained by G. R. Waite and Company of New York in 1802 and was then sold to Daniel Steele and Charles R. and George Webster who then applied for a patent on the shaped-note printing. A patent to cover the casting and use of shaped-note type was granted to George Webster acting as agent for his brother Charles and Daniel Steele on February 28, 1816.

There are points for argument on the identity of the inventor of the shaped-note system, but researchers seem to favor Little and Smith. A claim by Andrew Law cannot be substantiated. It is possible that Ishmael Spicer may have used "four significant characters" adapted from the materials of Andrew Adgate (see 1805) and Law may have been influenced by this. That would make Law the third person to put forward a system of shaped notes and not the second.

A part of the preface of The Easy Instructor is identical to Ralph Harrison's Sacred Harmony. London, 1784. This is an example of the common practice of compilers copying from other compilers.

Almost all subsequent shaped-note compilations will bear comparison to The Easy Instructor in format and in pedagogical and musical content, therefore the following data may be helpful.

The syllables and notation are "faw"▷, "sol" O, "law"□, and "mi"♦, and are common to all of the editions of The Easy Instructor.

In most of the editions, the leading tone is raised in the rudiments, using the G major scale for the exemplar (Rogers, p. 87).

In The Easy Instructor all major keys are called sharp and all minor keys are called flat. No tune has more than four sharps or flats in the key signature. When an accidental has been added to the work in addition to any found in the key signature, the key is called artificial. The keys of C major and A minor are called natural or primitive. These terms seem to have been adapted from The Village Harmony, 1800 (Rogers, pp. 92-94).

With the exception of an 1802 edition, scales are introduced in both the G and F clefs in five patterns of time-values, ascending and descending, but using only the G scale (Rogers, p. 97).

Other than "faw-sol-law-mi" there are no phonic syllables or note names used (Rogers, p. 197).

There is mention of beating time with the hand. Subsequent compilers will stress this as a learning device and singing school teachers will allow it when performing. But in The Easy Instructor there is some question as to just how much beating of time was intended. In the rudiments the beating of time was innotes. Or the ornament of syncopation. The Easy Instructor was advertised as a musical teaching system without the aid of an instructor. The pedagogical concept was to order one thing at a time. One of the teaching devices was the slide-rule which is a card used to mask half of a beat (measure) at a time. This makes it impossible to move the card and beat time at the same time. It also places the concept of the half note as integer in the minds of the learners. This concept reduces the number of moods (time signature permutations) to just four. Between 1802 and 1812 there is a reordering of the rhythmic rudiments (Rogers, pp. 76-79).

The assumption of an ordered and reasonable universe made the ordering of the rudiments of music for self-teaching seem quite feasible. Much rhetoric about music as a science was followed by many words in the early compilations. The concept

attributed to a combination of printing errors, horizontal voicing, the use of pure minor, and parallelism (Rogers, pp. 156-159).

All of the tunes are cast in one of four moods or metres: C.M. (8.6.8.6.), L.M. (8.8.8.8.), P.M. (irregular), and S.M. (6.6.8.6.) except for a few items of prose freely set as anthems (Rogers, p. 191).

of generalization (symbols before words) will come

only with the latter-day compilers.

Three-part hymns comprise six percent of the 1810 issues and forty percent of the 1817 issues. They are strophic, mostly syllabic, and a variety of texts are applied to the same tunes. Some expanding of melody by use of additional notes appears by 1817 (Rogers calls them "ornamental hymns"). The expansion of melody involves non-chord tones which are called transitions or appoggituras according to the compiler, but neither is treated in the rudiments of any edition of The Easy Instructor (Rogers, p. 111). Through-composed anthems decline from four in 1810 to three in 1817 and fuging tunes remain in all issues (Rogers, p. 25).

Major intervals are called greater, sharp, or perfect. Minor intervals are called lesser, flat, or imperfect. Unisons, thirds, fifths, and sixths are concords. Seconds, fourths, and sevenths are discords. The diminished form of a perfect interval, in the present day sense, is called minor. Semi-tones are presented in relationship to the pitch of G. Chord is spelled cord and many other terms vary slightly from present day spellings. As consecutive editions are released, there is a decline in the use of English terms in favor of Italian. The spelling of the names of composers and tunes varies with the edition (Rogers, p. 90).

There seems to be an abundance of printing errors. As an example, in the 1810 issues Windham, by Read, has an E-natural in the top clef against an E-flat in the alto clef in what should be a dominant chord in F-minor. In the same piece the leading tone was not raised and the seventh chord is minor and not diminished. Many "wrong" sounds can be

Expression marks and ornaments are few because the pieces are short and linear. By 1817 The Easy Instructor employed expression symbols in about thirty percent of the tunes, the most common being the tie (Rogers, p. 161). The tie, beam, or slur means as many notes as are under the tie will be applied to one syllable of text (Rogers, p. 106). The words dot or point are used as the mark of distinction or staccato and this is indicated by a wedge v above the note. This means to accent the syllable clearly (Rogers, pp. 104-105). The hold is in all but the earliest of editions (Rogers, p. 107).

Dynamics are achieved by "high notes soft, low notes full and bold but not harsh" (Lowens catalogue S, 1818, p. 8) and when a soft effect is desired, the number of persons singing each part is reduced. There is the implied practice of terraced dynamics but the concept of gradual dynamics does not seem to be present in The Easy Instructor. The singer of solos should be softer than the ensemble. Loud passages should never be forced. All should sing distinctly and "if the poetry is good and the music is good the accents will fall naturally" (cited by Rogers, pp. 115-122).

A direct (in the shape of a script w ) shows where the first note on the next stave will be, this being used in most later editions (Rogers, p: 108).

In practice the rudiments were probably skimmed over. All that was really necessary was to know the shapes of the notes, their sounds, the name of the hymn or psalm, the meter of the tune and a starting The less experienced were placed beside the Both men and women sang more experienced singers. all parts except the bass. pitch.

Textual topics included God in nature, praise of and faith in God, death and sorrow, and God's judgement. By and large the textual sources were British (Rogers, p. 183).

#### 1805

Andrew Law, The Art of Singing; in Three Parts, t, I. The Musical Primer, II. The Christian Harmony, III. The Musical Magazine. to wit, I. The Musical Primer,

proposed to issue, in three parts, The Art of Singing, with The Musical Primer as Part I, The Christian Harmony as Part II and The Musical Magazine as Part III. The Christian Harmony had Volume I and II and was ultimately replaced by a part called The above were issued in varying combimately had a supplement. The Musical Magazine had The Musical Primer ulti-The organization of Law's Art of Singing is different from that of any other compilation. He nations and in varying issues. The Harmonic Companion. six parts.

Andrew Law pioneered the "tune in the top part" instead of the tenor in 1793 and made the half note the basic unit of all time signatures by reducing the number of moods (Britton, p. 220). The only meter signatures were 2/4, 4/4, 3/2 and 6/4; therefluence on subsequent compilers, it was not in the fore a single note could have no more than three rhythmic values (Perrin, p. 85). Tempo markings time was freed from tempo. If Law had any inwere added (tempo giusto, etc.), hence prolated areas of time and tempo.

Indrew Adgate system. Law had taught singing classes n Alexandria, Virginia in 1791 and 1972 (Eskew, p. law & mi & , which with the addition of dots become faw Sol O law & faw sol O law & mi & Adgate adapts from fa & sol O la & mi & to fa & sol O la & mi & to fa & sol O sol O la & mi & Both eventually use seven syllables and Adgate adds syllables for the without tunes and then later combined the rudiments Law may have 17) and may have followed Ishmael Spicer who adverseven in number by modifications which do not alter evident. Both use a more curopeum service make tunes. Both use four symbols or shapes which make semi-tones. Both issued printed sets of rudiments been influenced by the four characters used in the tised Adgate's system in nearby Baltimore as the newest and "most approved plan in America" (adv. October 30, 1789). Adgate's system was taught by Spicer who refers to "four significant characters.' Certain similarities between Law and Adgate are with sections of tune selections. The combination Law claimed a shaped-note system as ready for publication as early as 1785 or 1786. Law may have of influences of Law and Adgate does not surface the basic shapes. Law's system is faw □ sol ○ Both use a more European selection of until 1835 with Mason's Sacred Harp. Andrew Adgate system.

The striking difference between Law and any other compiler is the elimination of the staff to which he is ultimately compelled to return.

#### 1810

John Wyeth, Wyeth's Repository of Sacred Music, Repository of Sacred Music. Harrisburgh: Printed John Wyeth, 1810. 120 p. CtHC, MWA, OCIWHI, P. by John Wyeth, 1810.

that Wyeth may have collaborated with Ananias Davisson. Wyeth had been an apprentice printer who eventually worked on the weekly paper Oracle of Dauphin, eventually buying it. Jackson calls this an excellent settled in Harrisburgh, Pennsylvania (in 1792) and imitation of The Easy Instructor, probably because Jackson, in White Spirituals, page 31, feels

almost half of the 156 tunes are taken from The Easy Instructor (Stevenson, Protestant Church Music in America) and Lowens has traced 47 of these tunes to Walker's Southern Harmony, 1835 and 53 to White's Sacred Harp, 1844. This shows the trend toward both a market in the South and a preference for tunes by American composers.

The Little and Smith notation is used, however Wyeth credits Andrew Adgate as the source for materials for his rudiments. Syllables are me, fa, sol, and la.

#### 1813

John Wyeth, Wyeth's Repository of Sacred Music. Part Second. Harrisonburgh: Printed by John Wyeth, 1813. 132 p. MWA (Shaw-Shoemaker 30589), OCIWHi, PPiW.

There are changes in syllables from the 1810 (Part First) in that fa becomes faw, la becomes law, and me becomes mi. The same shapes are used for the notes.

According to Metcalf (p. 145) this compilation was intended for Methodists. Nevertheless it is of greater significance among shaped-note compilations.

1820. 132 p. DLC, PPiW, and facsimilie reproduction by DaCapo Press, New York, 1964, from NcWsM.

These two editions will influence a number of compilers. Rogers (p. 19) says over 25,000 copies were sold. Crouse (p. 25) calls this the first shaped-note compilation to contain a significant amount of folk and revival tunes. Lowens (Music and Musicians, p. 144) identifies 1/3 of the tunes as being of folk origin and not previously published. Lowens (Music and Musicians, p. 134) and Harley (p. 22) trace nearly half of the tunes in these editions as having been in various editions of The Easy Instructor.

Harley (p. 62) considers this a "southern" book because of the folk hymns and Lowens (in the introductory pages, viii and ix, of the 1820 facsimilie) presents a table of tunes which appear in Repository, Part Second that are found in Davisson's Kentucky Harmony, ca. 1815, Boyd's Virginia Sacred Musical Repository, 181, Carden's Missouri Harmony, 1820, Funk's Genuine Church Music, 1832, Walker's Southern Harmony, 1835, and White's Sacred Harp, 1844.

Wyeth prefaced his rudiments with an explanation of the transposition of the scale by 4th and 5th and this seems to be the model for Davisson, Carden, and William Rhinehart (American or Union Harmonist) (Perrin, p. 41). Lowens does not feel that Wyeth was a musician (Music and Musicians, pp. 150-151) but relied upon his music editor, the Reverend Elkannah Kelsay Dare, who combined the vigor of New England music with music of the Scotch-Irish-English oral tradition. Hence the folk hymn. The 1813 edition contained 149 tunes, of which 58 are claimed as new and 31 are fuging tunes. The 1820 revision contains 13 new tunes by Dare and seven by a Chapin, presumed to be Lucius Chapin. Jackson, Lowens, and others have speculated on the identity of Chapin and other authors of the "folkhymns," but in many cases no conclusions can be reached. Jackson feels that Davisson may have collaborated with Myeth and this would provide an even stronger link between Wyeth and the "southern" compilers (White Spirituals, p. 21).

#### 1814

freeman Lewis, The Beauties of Harmony, containing the rudiments of music on a new and improved plan. Pittsburgh: Printed by Looker & Wallace, for Cramer, Spear & Eichbaum and Freeman Lewis, 1814. 200 pp. IaHa, OC, OCHP.

The Beauties of Harmony is significant in that Allen D. Carden will use this to draw from for his Missouri Harmony. Carden draws both theoretical

materials and tunes from Lewis. Lewis defines 350 musical terms and Carden will use many of these in his Western Harmony and his US Harmony. Lewis will pair three-part settings with four-part settings on the same page. This eliminates crowding and Carden will use this in 1829. These and other comparisons between Lewis and Carden appear on page 26 of Crouse's dissertation.

The rudiments include the presentation of the musical characters or examples, each in a box. There are 40 such boxes. Much of the rudiments seem derived from Wyeth's Repository, for example: notes above the staff are "notes in alt," below are "doubles," flat keys are called "low" (minor) and sharp keys are called "high" (major), and the tape measurements for the metronomes are the same (Crouse, p. 26).

The section on singing ("tuning the voice") will appear in Carden's Western Harmony (Crouse, p. 26).

#### 1816

Ananias Davisson, Kentucky Harmony. Harrison-burg, Va. n. publ., 1816. 140 pp. KyBgW, MiU-C, NBuq.

All of the tunes are in four-part harmony. The syllables are faw, sol, law and me, and the four shapes are those of Little and Smith. There are a variety of spellings of terms and songs by Davisson, not just in Kentucky Harmony, but in his other compilations as well.

In the preface Davisson speaks of "practical knowledge" in defense of his musical authority: however, his pragmatism is unequalled among shaped-note compilers. In an effort to make the music simpler, he shortened the introductory materials, presuming the singers will already know some of these things (Harley, p. 37) and omitted seven

musical symbols: the accidental sharp, flat and natural, the hold, the staccato, the trill and the C Clef. (See page 3 of his rudiments and also see Eskew pages 28 and 29 for commentary.) Harley (p. 37) points out that in one of his own tunes he bothers to change the key signature to include an f-sharp to make his composition sound "right."

The success of Davisson's compilations lay not in their musical sophistication but because he was both the first shape-note compiler in the Shenandoah Valley and hence the South, but also because he based his material on the very successful Easy Instructor and Repository, Part II (Eskew, p. 56). He also enlisted the aid of singing school teachers as selling agents. Since he was the only compiler in the south who printed his own materials at that time, he was able to produce at lower costs than competitors. He will influence Steffey's Valley Harmonist, 1836 in the omission of accidental sharps and flats. Caldwell will copy much of the materials from the rudiments in Union Harmony, 1837 (Jackson, White Spirituals, p. 52).

Davisson does not mention the names of composers except beside the index entry and these are not always accurate. Lowens (Music and Musicians, pp. 145-147) compared 15 tunes which Davisson took from Wyeth's Repository, Part II., and found three which Davisson Claimed as his own. Harley (p. 22) identifies 39% of the tunes as coming from the 1807 edition of The Easy Instructor and 49% of them having been published in the 1809 edition of The Easy Instructor. Eskew (p. 29) identifies about 25% of the tunes as folk-hymns.

There are 13 pages of introductory materials in the first edition. There will be only 5 or 6 pages in later editions and other compilations by Davisson. The viewpoints toward musical theory are expressed much 11ke Little and Smith and the format is much 11ke Wyeth's Repository, Part II (Harley, p. 35).

There seems to be no influence of Billings or his contemporaries, but 40% of Davisson's tunes are found in Nehemiah Shumway's American Harmony, 1801 reprint, some tunes are from Andrew adgate's Philadelphia Harmony, and 98 tunes are traceable to Wyeth. There is detailed information about the sources of Davisson's tunes in the introduction to the facsimilie by Lowens.

Printed and sold by the author, [1818] n.d. 148 p. DLC, ICN, KyU, MWA (Shaw-Shoemaker 43817), ViHarEm (fragment only), ViU.

The list of locations of volumes is from Harley except for the last entry, ViU, which was added to the Harley list by Lowens. Fifteen tunes will be removed from the first edition and will be replaced by 18, of which Davisson claims authorship of seven. Davisson also credits a number of singing masters by name and, since he is now his own printer and seller, this enhances sales. He also credits Little, Smith, Wyeth, Billings, Holyoke, Atwell, and Peck as compilers from which he drew, but does not link names with specific compositions.

In the second edition Davisson "observes" the necessity to attend singing schools because of the moral obligation to develop the talent given by God. Also he cites the necessity to eliminate discords in church music (Harley, p. 39).

The influence of Kentucky Harmony is considerable. Lowens' commentary in the introduction to the facsimilie is summarized as follows: Funk borrows songs for his two-part settings in Die allgemein nutzilche Choral-Musik, Davisson is the printer of Carrell's Songs of Zion in 1821, William Moore follows Davisson in omission of the seven musical symbols in 1825 in Columbian Harmony, Caldwell uses 63 Kentucky Harmony tunes in 1837 in Union Harmony, Jackson uses 54 Kentucky Harmony tunes in 1838 in the Knoxville Harmony of Music Made Easy, Carden uses Ill Kentucky Harmony tunes in 1820 in Missouri

Harmony, and White and King use 58 Kentucky Harmony tunes in the 1854 Sacred Harp. Subsequent issues of the Sacred Harp and other southern volumes used by "singing conventions" contained much material from the Kentucky Harmony.

Davisson simplified not only the rudiments of music but concepts about music. Each of his editions had three parts: I. Plain and easy tunes used in church; II. More elegant and lengthy tunes for concerts and singing societies; and III. Anthems. While this concept of placing the easier material at the first of the volume does not originate with Davisson, he seems to underscore simplicity by defining grades of music varying according to the function. He eliminates the Colef for the counter-tenor and uses the Golef for all parts except the bass. He singles out a sthe pitch on which most tunes in minor mode start. The teaching device of question and answer is used in the rudiments. The pyramid device is used to proportion the number of persons singing a part with fewer on melody to most on bass. Minor (flat) keyed songs should be sung softer than major (sharp) keyed songs, the bass always soft for flat keys.

the movement that each part had for the singer. The making of a tune so that it is interesting is easy, but to make the harmony part equally as interesting is a problem. Davisson freely "southernized" the parts when he thought it would help and did not hesitate to cross voices. Harley studies this in detail in his dissertation, pp. 59-86. There were five editions altogether.

### 1816

Timothy Flint. Columbian Harmonist. Cincinnati: Published by Coleman and Phillips, Printed by Looker, Palmer, and Reynolds, 1816. 204 p. MH, CSmH, Nhi, OCHP.

89 07 07)

The Reverend Timothy Flint was a well-educated New Englander whose varied interests included charity and possibly counterfeiting (Bean,  $\rho$ . 81). At the time he arrived in Cincinnati, 1815, he was appalled at the crude tastes in literature in music. He spent some time in St. Charles, Missouri, went back to Cincinnati, and in 1827 returned to New England.

In the preface to his compilation he attacks fuging tunes and he includes "slow and solemn" pieces and few tunes by American composers. There are no fuging tunes and the only agreement with other compilers of shaped-note music is the use of that kind of notation, the same as Little and Smith (Bean, p. 85). He relaxes the strict mood structure (Bean, p. 86).

Despite his strong tastes which ran counter to the trend in shaped-note compilations, he seems to have influenced Carden because the Missouri Harmony will contain 37 of these slow and solemn pieces and the opening and closing sections of the prefaces of Flint and Carden are identical.

Bean (p. 111) says that Flint may be the "amateur" who is so named as the compiler of the 1835 supplement to the Missouri Harmony.

It seems that the Morgan firm, who will publish Missouri Harmony, will hire the printers Phillips and Reynolds, and will purchase the copyright and fonts from Carden. Later Phillips and Reynolds will form their own firm and publish the 1844 Missouri Harmony (Bean, p. 80).

### 1820

Allen D. Carden. The Missouri Harmony. Cincinnati: Printed by Morgan, Lodge, & Co., for Allen D. Carden. 1820. 200 pp. DLC, Ladies Hermitage Association (Tennessee), 2 copies, MB, MoSHi, MoKU (Z-collection), Pvt. cy.

extensive dissertations by Bean and Crouse and has received extensive treatment by Krohn in Missouri Music. Much of the data about the various issues comes from Krohn.

The title Missouri Harmony probably indicates Carden's attempt to capitalize on the westward movement. He probably proposed this compilation for his "School for teaching the theory and practice of vocal music" advertised in the Missouri Gazette, 31 May 1820 (St. Louis). Probably the lack of a sufficient Protestant market made the St. Louis attempt unrewarding (Crouse, p. 34). An advertisement in the Missouri Gazette of 27 December 1817 for the Columbian Harmonist is cited by Krohn (p. 189). Carden may have had singing school competition from S. Willison (Krohn, p. 191). At any rate, he went to Tennessee where he lived the rest of his life as a successful businessman in many fields. The publication of Missouri Harmony continued to about 1858 but after the first printing the listing of "St. Louis" on the title page is

The printing of a tune was across the top of one page and was continued to the top of the facing page, then if more space was needed the tune was continued at the bottom of the first page. When a tune was continued, there was no clef or key signature on the continuation staves.

According to Jackson (White Spirituals, p. 40)
Carden acknowledges the ideas in Wyeth's Repository
II (1813) as a basis for his presentation of the rudiments. The explanation of the transportation of the scale by 4th and 5th is identical to Wyeth (Perrin, p. 40). Carden also uses 43 of Wyeth's 148 tunes, 41 of Chapin's 73 tunes (The Musical Instructor), and 88 of 213 tunes in Lewis' Beauties of Harmony (Krohn, p. 193).

The pendulum lengths are rarely cited after 1808 (Crouse, p. 109) but Carden does cite them;

however, their lengths do not compare to Billings', which had been the standard (Bean, p. 186).

There are few things new regarding either the tunes or the rudiments. The counter-tenor may use either the F or G "Cliffs" beginning with the 1835 edition (Bean, p. 192) and there is an occasional alto part written in the F clef (Bean, p. 210).

There is a trend toward "northernizing" in subsequent editions. This is mostly in the materials contained in the supplements, however the influence of the book is in the south. Joe S. James in Brief History of the Sacred Harp mentions that Missouri Harmony was in use in Georgia in the 1830's and in Mississippi in the 1840's (cited by Krohn, p. 196). Tunes and materials in Moore's Columbian Harmony, 1825, are largely from Missouri Harmony (Jackson, White Spirituals, 1846).

Of the 200 pages in the first edition, only 195 are numbered. Two tunes are in two-part setting, 185 are in three-part, and 149 are in four-part.

There will be 18 more editions or printings with gradual changes toward more European content in musical taste.

### 1820

Ananias Davisson. Supplement to the Kentucky. Harmony. Harrisonburg, Va.: Printed by the author, 1820, n.p. (no pagination). NNUP, ViHarEm.

The rudiments are contained on five pages and there are "117 new songs for Methodists" (Jackson, White Spirituals, p. 31). It is not oriented toward singing schools (Eskew, p. 44) but toward the south with more folk-hymns and fewer tunes of a New England character. New songs are by White and Davisson with evidence of input from Wyeth, Carrell, and Dare.

(author of Kentucky Harmony). Printed at Mt. Vernon, Va. (cited by Jackson), 1826. (Jackson cites 1826.) n.p. CLU, DNC, MH, NHi, NNUT, NCWSM, TU, TKL (2 copies), V, ViHarEm.

According to Harley (p. 30) the third edition has more of a southern harmonic tradition. This will influence Moore's Columbian Harmony, 1825, in stressing the inutility of accidental and ornaments (Jackson, White Spirituals, p. 46) and Caldwell will copy tunes for his 1837 Union Harmony.

### 1821

Ananias Davisson. An Introduction to Sacred Music. Harrisonburg, Va.: Printed by the author, 1821. 40 pp.

This is for three voices, treble, tenor and bass, and is aimed at "young" scholars. He simply removed the alto part from 49 tunes from other of his compilations without regard for damage to the harmonic effect (Harley, p. 32).

### 1822

The Methodist Harmonist. New York: Printed by N. Bangs and T. Mason, for the Methodist Episcopal Church, 1822. n.p.

The significance of this is that a committee of a church body selected the tunes. The trend toward European type of hymn composition is evident.

Waugh and T. Mason, under the auspices of the Methodist Episcopal Church, 1833. 362 pp. DLC,

This is an enlarged edition and most of the fuging tunes have been omitted because of opposition

by some Methodists. The three pages of rudiments are similar to the 1817 New Brunswick Collection (Loessel, p. 160). Harrisburg: Printed by William Greer, 1821. n.p. American Harmonist. Stephen St. John.

tion concords and discords. There are eight pages and 98) as the first shaped-note compiler to men-On Perrin list and cited by Loessel (pp. 52 of rudiments.

### 1822

Sacred Music. Cincinnati: Morgan, Lodge & Co., 1822. n.p. OC-Rare Books Division. Seth Ely.

The theoretical introduction is a condensation of J. S. Callcott's Musical Grammar. This is significant because a shaped-note compiler has included all the major and minor scales (Perrin, p. 41). In his introduction he gives a strong defense of the shaped-notes (me, faw, sol, law) rebuking criticism of the notes rather than of lazy singers who use them. He goes on to say that after a time the students should be taught the letters used to name the notes, too. Bean (pp. 90-93) elaborates

### 1825

Printed by Morgan, Lodge, and Fisher, 1825. 198 pp. OC-Rare Books Division (Located per Bean, p. 92), UCLA (M 2117 M 78 c). Cincinnati: Columbian Harmony. William Moore.

especially in tossing out as useless the accidentals, Moore, of Wilson County, Tennessee, registered the copyright in the District of West Tennessee April 2, This is of significance because the book seems to have been used in middle and west Tennessee. 1825. He declares he followed Davisson heartily,

tunes are largely from Carden and Davisson (Jackson, the hold, staccato, direct, and counter clef. White Spirituals, pp. 44, 46)

Ananias Davisson. A Small Collection of Sacred Music. Harrisburg, Va.: Printed by the compiler for Stephen D. Puller, July 1825. 64p. ICN.

voices. The six-page introduction was adapted from the Kentucky Harmony. There is a preponderance of northern tunes, perhaps meant for a different pubresembles Davisson's Introduction to Sacred Music, lic. The volume is small in physical size. This There are 61 tunes, of which 50 are in three 1821, in size and content (Harley, p. 33).

Va.: Printed by the Author where he now resides, 1826, 64p. NNUT, ViHarR.

tucky Harmony and the three-part setting was achieved by removing the alto part from the Kentucky Harmony rect. There are five four-part tunes. Many of the tunes have more stanzas of text than Kentucky Harstroyed and the momentum of the few fuging tunes is destroyed. Further, all instructions as "Flat key of" are eliminated, leaving the singer to figure ture, this became a challenge. Misspelling of tune the Kentucky Harmony and Supplement. Thirty of the tunes are in three-part and do not come from Kentitles is common and even the wrong titles are asprinted by University Microfilms: International, Ann Arbor, 1978. The tunes are taken chiefly from signed certain tunes. The index seems to be cor-An authorized facsimilie of the book has been out whether the work is in major or minor. Since there are no accidentals except in the key signafour-part settings. The harmonic values are demony which indicates congregational use.

### 1829

Allen D. Carden. United States Harmony. Nashville: Printed by John S. Simpson, for self,

examined the Tennessee State Library copy and printed melody, both in three and four-part voicings. The tenor voice line is moved from the inner part to top stave at times. (Cited by Crouse, p. 100, who settings. The significance, perhaps, 1s tnat at times the tune is placed at the top in highness of the facsimilie of the title page on page 97 of the There are some four-part and some three-part ngs. The significance, perhaps, is that at pitch with the other voices sounding below the dissertation.)

John Cole. Union Harmony, or Music Made Easy. Baltimore: Printed by William and Joseph Neal & Jess Cole, 1829. n.p. DLC. ICN.

Baltimore (Fisher, p. 216). Cole tended to feel the characteristic styles in the tune books to be of poor taste (for example, the fuging tune, parallelism, the folk-hymn, etc.). He published at least 13 tune books between 1800 and 1842 (Fisher, p. 221). more introduced music in the public schools in 1843 and the shaped-note style of music gradually became a singing school teacher using chiefly round notes. He apparently was of influence in the towns around It is not certain that this is the same Cole, how-Baltimore singing schools and by 1802 was himself ever it would seem that he might publish at least an adult, rural activity in that area (Fisher, p. one compilation of shaped-notes just to keep the John Cole was a pupil of Ishmael Spicer of "good literature" before the rural public.

There are six pages of rudiments. Loessel examines this compilation on page 98 of his dissertation. the names of spaces and lines in the G and F clefs. The compilation had the four shaped-notes of Little and Smith but the hand was used to learn

Virginia H. Davis. David L. Clayton and James P. Carrell. ny. Winchester, Va: Printed by Samuel Harmony. Winchester, Va: Frince 1831. 167 p. DLC, NcD, Vi, ViU.

necessity to upgrade music. Songs are reprinted per se from Songs of Zion, 1820 (Jackson, White Spirituals, p. 35) and they are less rural than those of most contemporary compilers. Sixty-five tunes appearing in Virginia Harmony had been published by Davisson (Carrell had been a collaborator with Davisson) but only two were composed by Davisson (Jackson, p. 36). Seventy-five of the Virginia Harmony tunes will be used by Funk in Genuine Church Music, 1832 (Eskew, The preface contains statements regarding the p. 106.

notes because of lack of time, interest, or instrucin the way of getting to European notation (Perrin, p. 41). On page ii, the compilers are "of the belief that four shape use was an intermediate step four character solemnization is an unnecessary step The compilers comment in the introduction that those people who would never learn to read round toward learning European notation, or it was for tion."

the first shaped-note compilation to use the tune "Amazing Grace." It appears as "Harmony Grove" on According to Eskew (p. 111) this is probably

The rudiments make mention of the term "Patent Notes," and the ease of learning them.

Henry C. Eyer. Union Choral Harmonist, or Union Choral Harmony, or Union Choral Harmonie.

. . . Edition 10 . . . . 1839.

of instrumental parts to accompany the vocal parts .oessel (pp. 185-188) shows the introduction parts shown in round notes and the vocal parts in (facsimilie from DLC copy) with the instrumental the four-shaped notes.

1834

gelical Musick. Pittsburg: Printed by G. Fleming for the authors of Carlisle, 1834. n.p. DLC.

which the last eight are in round notes. The tunes are also printed some in shaped notes and some in functions. Loessel treats this compilation in detail (pp. 208-213) and includes facsimilies from the DLC copy. The instrumental parts are called "symphony." This compilation has 23 pages of rudiments of terns and some of the time moods are expressed in numerical notation, C = 2/2 for example, and music seven syllables, <u>fa, sol, la, ma, ro, na, and mi.</u> The <u>ma, ro, na source is unknown (Loessel, p. 209)</u> but is similar to those of Adgate. The beat of rudiments of music. A new approach aesthetically can be sensed. The melody goes to the sopranos and the part is called first trebel but is still is divided into two parts, melody and harmony. The latter is a break from the ordered science of triple time is similar to present conducting patround notes and this, plus the syllabic changes, probably marks the trend toward exclusive use of round notes. The rudiments give the four shapes of Little and Smith, the names of the notes and printed on the third stave. Instrumental parts are inserted in round notes and do not just accompany but have separate melodic and harmonic

1835

Timothy B. Mason (and Lowell Mason). Ohio de Harp. Cincinnati. (1835, possible 1834) Sacred Harp.

the Jackson list (White Spirituals, p. 25). It is called the first edition of Masons' Sacred Harp by Loessel (p. 202). There is a 20-page introduction Subsequent editions are printed in both round and solmization syllables, however the learner is encouraged to disregard the shape of the syllables. which includes the four shaped-notes with seven shaped notes (Jackson, p. 17).

Sacred Harp or Eclectic Harmony. Cincinnati: Published by Truman and Smith, /1835, possibly 18347.

used (Perrin, p. 78). The moods or modes of time are replaced by double measures (2/4 and 2/2), triple measures (3/2, 3/4, and 3/8), quadruple measures (4/4, 4/2, and 4/8), and sextuple measures (6/4 and 6/8). In general, the Masons divide music into rhythm, melody, and dynamics. They use American terms for note values, as whole note (Perrin, p. 70). From here on out, mostly modern time-beating patterns are

p. Private Cy.

will be common hereafter, especially in compilations It is uncertain how many editions there are; Groves "American Supplement" states 18. However, Perrin (p. 43) says that shaped-note printings are contain a question and answer review session after found through at least 1846. The later editions each section of the rudiments, a practice which of seven-shaped notes.

Musical Companion. New Haven, Conn: Printed by Whiting, for William Walker, 1835. 232p. UCLA (M 2117 W 15 s).

Jackson (White Spirituals, p. 61) identifies an The above is from the Jackson collection.

11

9/

issue of 216 pages which he assumes as 1835 located at ScSp.

Walker, like his brother-in-law Benjamin Franklin White, becomes a legend when he uses his personality to organize and perpetuate societies devoted to shapednote singing.

### 1836

John W. Steffey. The Valley Harmonist. Win-chester, Va: Printed by J. W. Hollis, 1836. 167 p. IcN. Viu.

In the first edition Steffey follows Davisson's practice of omitting accidentals other than in key signatures. His book contains eight pages of rudiments and 46% of his tunes are folk-hymns which is more than his contemporaries publish in the Shenandoah Valley (Eskey, pp. 119-120). The tunes are in three-part settings with the textual sources not given (Eskew, p. 117).

Printed by Henry T. Wartmann, 1845. 336 p. ICN. NCWSM, ViHarEm, ViHarR, ViHarT, ViHi, ViU.

The second edition is much larger and the use of accidentals is adopted, along with a question and answer method in the rudiments (Eskew, p. 121). Two William Walker tunes are used and of the additional materials only 11% are folk-hymns. Significant is the introduction of the music on two-line staff, which appears in exercises for tuning the voice (Eskew, p. 116).

### 1837

William Caldwell. Union Harmony or Family Musician. Maryville, Tn: Printed by F. A. Parham, 1837. 151 p. UCLA (M 2117 C 12u).

This is very close to Davisson's Kentucky Harmony. Sixty-three of the 145 tunes in this compilation are taken directly from the Davisson book and Caldwell claimed authorship of many tunes, which meant he simply supplied new harmonic settings. One of these was "Amazing Grace." He also took four tunes from Supplement to the Kentucky Harmony, and in turn much of his material was then used bodily by Jackson in Knoxville Harmony, 1838 (Jackson, White Spirituals, pp. 49-53). Caldwell had been a singing school teacher for about 15 years when Union Harmony came out. He had a few unusual terms which resulted either from misprints or his own inventiveness; for example, the crotchet rest which is notated --f-- and called a suttlon or sutton (Jackson, pp. 49, 50).

### 1838

John B. Jackson. Knoxville Harmony. Madisonville, Tn: Printed by A. W. Elder, for D. & M. Shields and the Author, 1838. 200p. UCLA (M 2117.13k)

Seventy-five of the tunes are found in Cald-well's Union Harmony, 54 can be traced to Davisson compilations and 42 are found in both Union Harmony and Kentucky Harmony. There are 33 tunes in 5-tone scales (Jackson's term) and a number of popular tunes with sacred texts, such tunes being "Home Sweet Home" and "Turkey in the Straw" (Jackson, White Spirituals, pp. 53-54).

B. F. White and E. J. King. The Sacred Harp. Printed and bound in Philadelphia, for the authors, of Hamilton, Ga., 1844. 262p.

The Sacred Harp represents a class different from any of the other four shaped-note compilations. It is used by people who preserve and protect this system from any outside influence toward change. It is not only a closed musical system and body of literature, it is a closed standard of performance.

Benjamin Franklin White was born September 20, 1800 near Spartanburg, South Carolina. He shared his musical experiences with his brother-in-law, William Walker (they had married sisters). Legend has it they co-authored Southern Harmony and Walker went north to have it published but used only his name, hence estrangement. Not long after the publication of Southern Harmony in 1835, White moved to Harris County, Georgia, where he edited the local newspaper, The Organ, and in which he published, one by one, the tunes that were to appear in Sacred Harp. (Source: Joe S. James, A Brief History of the Sacred Harp, 1904, pp. 28-30.)

There is not much known about E. J. King. An E. L. King is listed among a revision committee, but James feels this is an error and that it should be E. J. Apparently, King's contribution was mainly one of composer-arranger and White generously listed him as co-compiler (Ellington, p. 38).

The popularity was not in the material as it was not that different from other compilations. Perhaps the success was in that the "sing" had become a type of worship in itself and B. F. White was adept at getting the book marketed (Ellington, p. 39). Ellington devotes part of Chapter IV of his dissertation to this theory.

White had to get his book adopted by the singing school teacher. Also, since community sings
diminished in frequency after a singing school, he
organized a "convention," with chairmen, that met
regularly (Ellington cites James, p. 39). He organized the "Southern Music Convention" in 1845 with
the first session in Huntsville, Georgia. This became the parent convention and White wrote the rules
and prescribed the use of Sacred Harp. From 1845
to 1867 White was in control, but in 1868 E. T.
Pound, a member of the committee of the Southern
Musical Convention and himself a compiler, advocated the use of other books. There was a split
(Ellington, p. 42).

The Sacred Harp users of the Southern Music Convention went to the Chattahoochie Music Convention, which had been organized in Georgia in 1851 first meeting 1852 and had been staunch defenders of the Sacred Harp (Ellington cites: Earl V. Thurman, The Chattahoochie Musical Convention 1852-1952, East Point, Ga., by Author, 1952, p. 4).

supplied by the singer. (These data are from Ellington, pp. 51 through 66.) Various editions, reprints are cadential spaces, and even then it may have been by accident. The tunes are based on melodies and 5ths, and octaves. Voices are crossed at will.
There is no appropriate place designated for the opening or closing of chordal sequences. Whether it was done at all does not become known until there 6th omitted if minor occur, and in minor most leading tones were not raised but are automatically trary motion. There are numerous parallels in 4ths, "Gapped scales," diatonic scales with There are four concords, the unison, 3rd, 5th, and 6th. The tenor is frequently paralleled in 3rds, 4ths, or 5ths. The remaining parts were usually rhythmically in unisom with the tenor but in conand V. The voicings are in three-part more than four-part in 1844, but will increase to by and large all four-part in the 20th century revisions. in Walker's Southern Harmony and Carder's Missouri Harmony (Ellington, p. 24). White abolishes some i.e. Watts. "Gapped scales," diatonic scales wit the 4th and 7th omitted if major and the 2nd and formances. The harmonic preference was root in I The rudiments are in the same order as those background: modes, incomplete use of major and minor, and parallelism of parts. The texts reflected a theology of dissenting hymn writers, melodic fragments which were a part of a Celtic moods and increases time (in seconds) for perand revisions continue to today.

### 1846

George Hood. Southern Charch Melodist, or Southern Melodist. Philadelphin: Published by Hagan and Thompson, 1846. n.p. DLC., ICN.

According to Metcalf (p. 245) Hood (1807-1882) was an early historian of American sacred music. He published both shaped notes and a figured bass. The Southern Melodist (title cited by Jackson and Metcalf) was a single musical publication by Hood. Perrin (p. 71) cites Hood's use of American terms for note lengths as whole, half, etc., and Perrin and Loessel (p. 99) cite the title as Southern Church Melodist. There are 19 pages of rudiments and the use of the compilation probably excluded the South (Loessel, pp. 207, 223).

### 1849

Charles Dingley. Devotional Harmonist. New York: Published by George Land and Levi Scott for the Methodist Episcopal Church, in regular and shaped-note editions, 1849. n.p. DLC.

The preface cites the need for a greater number of metres. A committee assigned compilation to "C. Dingley, Esq." The section of rudiments is 18 pages long and has a question-answer unit after each part, yet seems disjointed. The rudiments use both fa, sol, la, mi and do, re, mi, fa, sol, la, si. The DLC copy has a property stamp which indicates use by a church in New York. (These data are cited by Loessel 207, 224 and 225). Perrin (p. 71) cites as whole, half, etc.

### 820

Charles Warren. Missouri Harmony, Revised and Enlarged. Cincinnati: Printer not indicated, Published by William Phillips & Co., Stereotyped by E. Morgan & Co., 1850, 270 p. DLC, ICN, ICU, CU, MoSHi, UCLA (M2117 c17w), Private Cys (2).

This is a revision of Carden's Missouri Harmony. Bean (p. 111) calls this the ninth edition. There was a new copyright granted 12 July 1850. The preface was wholly re-written. The alto or C clef

was abandoned and all treble parts were printed in the G clef. There was a new order of vocal parts with the top (tenor) stave containing the melody, then alto, treble, and bass. The printing of the F clef sign was changed. The harmony moves in block fashion and this is achieved by re-writing the melodic movement of parts other than the tune to make them less melodic and to remove voice crossing. Some pick-up notes are reversed. The pages being longer, tunes are printed on the same page where possible rather than going across paired printings. (These items are cited by Crouse, pages printings. (These items are cited by Crouse, pages comparisons, using facsimilie photos from the 1850 and earlier editions.

### Highlights of the Enterprise of the Seven-Shaped System

### 1807

Andrew Law. The Art of Singing.

The curious combinations of the publications of Andrew Law are explained in detail in the section on four-shaped notes. The Art of Singing had three parts: I. Musical Primer, which later had a Supplement; II. Christian Harmony, which had Volume I and Volume II. and was later replaced by the Harmonic Companion; and III. Musical Magazine which had Parts 1, 2, 3, 4, 5, and 6. These appeared in various combinations; sometimes dates were included in the title page, sometimes not.

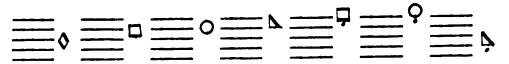
by Anderson & Meehan. n.d. 16 p. MWA (Shaw-Shoemaker 23192), MiD-B.

The Law seven shaped-note system is as follows:

Faw □, Sol O, Law △, Faw ὑ, Sol Ó, Law 仫, and

There were no staffs used and only four syllables. The dot would be placed under the note if descending. He is probably the first to publish seven shapes as a system. Since there was no staff it is easiest to illustrate the system by showing a facsimilie from Law on the following page.

The <u>Supplement to the Musical Primer</u> introduces a ledger line beside the seven shapes while defending the use of no lines. The following is a representation. Note that the lines do not run through the note, only beside it. The second ledger line is G. With the ledger lines it is not necessary to place dots above or below notes to indicate ascending or descending action.



. The Art of Playing the Organ and Pianoforte. Philadelphia: Printed by Jane Aitken for the author, n.d. 8 p. MWA (Shaw-Shoemaker 20529, 17900 q.v.).

This contains no music but does propose a seven-shaped note system without staff for instrumental music. There is not much difference in this and the other seven shaped system of Law except that the instructions show the shapes in relation to a keyboard. The date of this is estimated at 1810.

| C==C--0 | N | O-P | V N J N | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P | O P PHILADELPHIA. Slow. 85

The Law Seven Shaped-Note System. from Law, Andrew, Musical Magazine, Number Second, Philadelphia, printed by Jane Aitken, n.d., p. 122

In Paris Mons. Jeu de Berneval, a pupil of Galin, used figures to designate the seven degrees and introduced what he called monogamic signs. This is per W. E. Hickson, cited by Perrin (p. 14) and see also F. H. Gibson, The History of Shaped or Character Notes, Boston, F. H. Gibson Co., 1889. This is not used in American compilations.

□ re C mi ◊ fa ∪ so ◊ la ⇔ si △

### 1830

or Repository of Sacred Harmony. Norristown, Pa: Printed by D. Sower, Jr., 1830. n.p. DLC. The compiler is unknown but there is reference to "By a Professor of Music." The preface also contains a brief history of notational changes which refers to the four-shaped systems as "absurd" in that it is too easy and one would never learn the gamut (Loessel, p. 263).

The notation principles are derived from both Little and Smith and Law in deriving the shapes, but the w is left off the syllable names as being softer and adaptable to more genteel and graceful singing (cited by Loessel, p. 262). Perrin cites the syllables with the w in his dissertation but removes them in his article. "Systems of Scale Notation." (p. 258). There is an unusual system for notating rests with symbols that resemble notes and have stems which produces confusion with notes. Tempo markings are given as 4/60 which means four quarter notes in a measure at a rate of 60 quarter notes per minute. Likewise there is 2/48, 3/90, etc.

The system of shapes and symbols:

But there are six other sets of syllables for the same shapes which are for various purposes. The compilers call this "syllabication" and this unique system is cited in detail by Loessel (p. 264) who provides a facsimilie from the DLC copy (p. 261).

The other sets of syllables are:

fa	<del>ا</del> ك	ra •	Ę.	용	fа
шe	ae a	e E	ae H	Si	Ē
<u>۾</u>	sa	<u>8</u>	na	<u>8</u>	<u>J</u> a
20	၉ ်	sol	용	sol	sol
<u>ə</u>	<u>ရ</u>	<u>ه</u>	þa	fa	fa
Sa	<u>ا</u> م	Sa	Ja	a E	٦
٦	sol	80	sol	ā	sol
fa	fa**	fa	fa	<del>-</del> 6	fa

\*To be applied to ascending and descending the scale.

\*\*Best in reading tunes.

The time value system for rests is as follows:



From page 18 in the compilation (cited by Loessel,

### 1846

Jesse B. Aikin. The Christian Minstrel. Philadelphia: Printed by T. K. and P. G. Collins, Stereotyped by L. Johnson & Company, 1846. n.p.

This seven-note system remains in use and is the most common of all the shaped-note characters:

doe A ray Omi & faw A sol O law I see V

Aiken also presented syllables for accidentals:

doe △ dee #△ ray ♡ ree #♡ mee ◊ faw ┗ fee #♠

sole O se #O law □ lee #□ see O doe △

There was a dispute over ownership of a seven shaped-note system between Aikin and Alexander Auld (see 1847); however, the Aikin system remained the most copied. Aiken threatened the Funk people in 1877 with suit and the Funks stopped printing using the Aikin characters (Jackson, White Spirituals, pp. 352-353).

Aikin used only 2/2, 3/2 and 6/4 (Perrin, p. 85); he excluded the minor scale stating the natural minor scale does as well (Loessel, p. 270). The use of only three time indicators and one scale for all minor was logical simplification to Aikin who said it all sounded the same to the ear. The pitches of G and g appear as the middle line (3rd lines) of the bass and treble staffs respectively since that pitch seems to be the middle of the voice range. It also makes reading of either clef by anyone possible and makes it simple to adapt instruments to the music. Therefore, the key signature is eliminated since it's only relative. At the start of a tune the key is indicated as "Key of F," etc. Finally the aesthetic notion creeps in as music is divided into pitch, length, and force.

This is the outset of a new system as by this time the four-shaped notation is being forced to succumb to pressures to modernize and the seven-shaped system seems a part of the solution.

There seem to have been many editions published from Philadelphia, New York, Boston, Wheeling, Cincinnati, Lexington, and Columbia.

### 1847

Alexander Auld. Ohio Harmonist. Cincinnati: Printed by J. A. and V. P. James, for Alexander

Auld and Joshua Maetin, 1847, n.p. DLC.

The compilation has three parts and while all three parts use the seven shaped-note system of Auld, parts one and three use seven syllables and part two uses four syllables. Auld claimed priority over Aikin in inventing a seven shaped-note system. He claimed his invention dated from 25 December 1835 and was introduced into his classes and approved by most (Jackson, White

Auld laments singing in churches being left up to the choir and feels that there should be congregational input in the singing. He is very definite that non-Christians should get out of the choir.

The Ault shaped-notes are:

doe Dray d mee ♦ faw b sol O law □ see 区

He claims ownership of the terms doe, ray and see.

1848

W. H. Swan and M. L. Swan. Harp of Columbia. Knoxville, 1848. n.p.

This appears in the Perrin dissertation and in Jackson's list of seven-shaped compilations (White Spirituals, p. 323). Woolley in the preface to the facsimilie of Sacred Harp calls this the first seven shaped-note book. It has, however, lasted because of its use by "Old Harp Singers" who hold periodic singing conventions in the East Tennessee area.

The Swan shaped-note system is:

do X ra D mi O fa D sol O la 🗆 si 🛆

This is in use today by "Old Harp Singers."

222

Joseph Funk and Sons. Harmonia Sacra, Edition 5 (a seven shaped-note continuation of the four shaped-note Genuine Church Music). Mountain Valley: Printed by Solomon Funk, for the Authors, 1851.

The Funk shaped-note system is:

do 0 re C me o fa o sol o la 🗆 si 🗆

1853

T. K. Collins, Jr. Timbrel of Zion. Philadelphia: Printed by T. K. and T. G. Collins, for T. K. Collins, Jr., 1853. n.p. DLC.

The shaped notes are those of Aikin's Christian Minstrel, 1846, but the rudiments, though similar, do not have a question-answer section. In the 12-page rudiment section, Collins describes his method as "inductive," therefore "progressive." He converts the four-part fuging tunes to vertical harmony so they will be in good taste for worship (Loessel, p. 294).

Jackson (White Spirituals, p. 323) listed the publication as 1854.

Levi C. Myers. Manual of Sacred Music. Mountain Valley, Va: Printed at the Office of Joseph Funk and Sons, 1853. 127 p. DLC, ViHarEm.

The Funk seven-shape system was used. The text sources are given. Eighty-one of the 153 tunes are published for the first time and two of those are revival spirituals although 20 have a a chorus which is a characteristic of the revivaltype hymn. (Data cited from Eskew, p. 136.)

### 1866

William Walker. Christian Harmony. Philadel-phis: Printed for Miller's Bible and Publishing

At this point the use of seven shaped-note systems seems to increase (Perrin, p. 52) and the significance of this compilation is that everything is modern except the use of shaped-notes and the retention of a separate staff for each voice part. Songs by composers formerly outside the realm of shaped-note compilations, as Lowell Mason, are used. There is another factor that this compilation represents and that is the "normal school" which has by this time become an active business. In a sense, it is a singing school for singing school teachers not taught by itinerants, but taught to pupils who come to the teacher. The training is more intense and the materials more sophisticated in the European sense. This continues today in various forms.

Walker had his own shaped-note system as shown

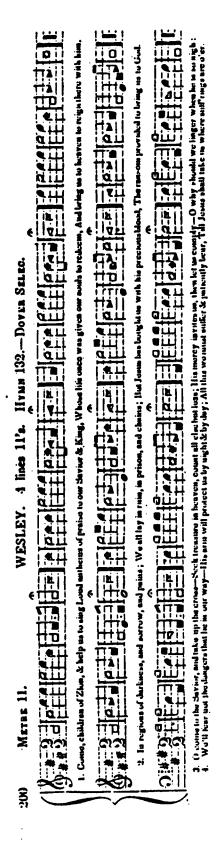
doe A dee #A ray & ree #k mee & faw A sole P see #P law P lee #B see A doe (now descending) doe A see A say b A law P lay B sole P say b P faw A mee A may b A ray & ree & doe A



The four-shaped system of Little and Smith

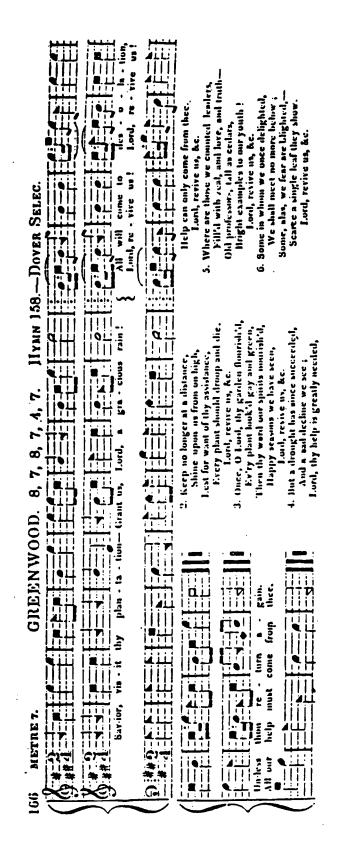
92

from: Joseph Funk, Genuine Church Music, Edition 4
Mountain Valley: Printed by Joseph Funk and son
Benjamin, 1847, 288 p. Courtesy of private
Owner--from Funk's personal library



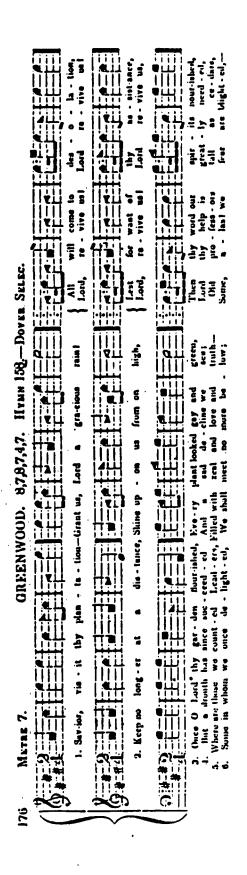
The seven-shaped system used by Funk

from: Joseph Funk and Sons, Harmonia Sacra, Edition Mountain Valley: Printed by Salomon Funk for the Authors, 1851, 322 p. Courtesy private owner-from Funk's personal library



# The four-shaped system of Little and Smith

from: Joseph Funk, Genuine Church Music, Edition 4
Mountain Valley: Printed by Joseph Funk and son
Benjamin, 1847, 288 p. Courtesy of private
owner--from Funk's personal library



## The seven-shaped system used by Funk

from: Joseph Funk and Sons, Harmonia Sacra, Edition Mountain Valley: Printed by Salomon Funk for the Authors, 1851, 322 p. Courtesy private owner-from Funk's personal library

(20)

Flat Key ou A.

X 1

EXHORTATION.

"Exhortation" from Kentucky Harmony by Ananias Davisson, 1816, p. 82

come bait'ning on,

Wica you ke

Behald the months

Now in the heat of youthful blood.

K L

EXHORTATION.

### **BIBLIOGRAPHY**

- Bean, Shirley Ann. "The Missouri Harmony, 1820-1858: The Refinement of a Southern Tune Book." D.M.A. dissertation, University of Missouri-Kansas City, 1973.
- Britton, Allen Perdue."Theoretical Introduction in American Tune-Books to 1800."Ph.D. dissertation, University of Michigan, 1949.
- Bronson, Bertrand H. Child Ballads Traditional in the United States, a preface to recording AAFS-57. Washington, D.C.: Library of Congress, Music Division, n.d.
- Courlander, Harold. Negro Folk Music of Alabama, introduction, notes and texts to vol. 2, Religious Music, FE 4418. New York: Folkways Record and Service Corp., 1956.
- Cowell, Sidney Robertson. Old Harp Singing, introduction and notes to recording FA 2356. New York: Folkways Records and Service Corp., 1951.
- Crawford, Richard A. Andrew Law, American Psalmnodist. Evanston: Northwestern University Press, 1968.
- Crawford, Richard A., and David P. McKay. "The Performance of William Billings' Music." Journal of Research in Music Education 21 (Winter 1973):
- Crouse, David Lee. "The Work of Allen D. Carden and Associates in the Shape-Note Tune Books, Missouri Harmony, Western Harmony and United States Harmony." D.M.A. dissertation, Southern Baptist Theological Seminary, 1972.
- Dearnby, Christopher. English Church Music 1650-1750. London: Oxford University Press, 1970.

- Ellington, Charles Linwood. "The Sacred Harp Tradition of the South: Its Origin and Evolution." Ph.D. dissertation, Florida State University, 1969.
- Ellinwood, Leonard. The History of American Church Music. rev. ed. New York: Da Capo Press, 1970.
- Eskew, Harry Lee. "Shape-Note Hymnody in the Shenan-doah Valley." Ph.D. dissertation, Tulane University, 1966.
- Evans, Charles. American Bibliography 1639-1800. New York: Peter Smith, 1941.
- Finney, Theodore M. "The Third Edition of Tuft's Introduction to the Art of Singing Psalm-Tunes." Journal of Research in Music Education 14 (Fall 1966):163-168.
- Fisher, James L. "The Roots of Music Education in Baltimore." Journal of Research in Music Education 21 (Fall 1973):214-224.
- Fisher, William Arms. One Hundred-Fifty Years of Music Publishing in the United States: A Historical Sketch, 1783-1933. Boston: Oliver Ditson, 1933.
- Fowler, Charles B. "Discovery Method: Its Role for Music Education." <u>Journal of Research in Music</u> Education 14 (Summer 1966):126-134.
- Goldstein, Kenneth S. Gospel Songs, introduction and texts to recording FA 2357. New York: Folkways Records and Service Corporation,
- Graham, John R. "Early Twentieth Century Singing Schools in Kentucky Appalacia." Journal of Research in Music Education 19 (Spring 1971):

Hammond, Paul Garnett. "Music in Urban Revivalism in the Northern United States 1800-1835." D.M.A. dissertation, Southern Baptist Theological Seminary, 1974.

Harley, Rachael Augusta Brett."Ananias Davisson: Southern Tune-Book Compiler (1780-1857)." Ph.D. dissertation, University of Michigan, 1972. Jackson, George Pullen. Another Sheaf of White Spirituals. Gainesville: University of Florida Press, 1952. to recording AAFS L11. Washington, D.C.: Library of Congress, Music Division, n.d.

. The Story of the Sacred Harp 1844-1944. Nashville: Vanderbilt University Press, 1944.

. White Spirituals in the Southern Uplands. New York: Dover Publications, 1965.

James, Joe S. A Brief History of the Sacred Harp, and its Author, B. F. White, Sr., and Contributors. Douglasville, Ga.: New South Book and Job Print, 1904.

Krohn, Ernst Christopher. Missouri Music. New York: Da Capo Press, 1971. Kyme, George H. "An Experiment in Teaching Children to Read Music with Shape Notes." Journal of Research in Music Education 3 (Spring 1960):

Loessel, Earl Oliver. "The Use of Character Notes and Other Unorthodox Notations in Teaching the Reading of Music in Northern United States During the Nineteenth Century." Ed.D. dissertation, The University of Michigan, 1959.

Lomax, Alan. The Gospel Ship, introduction and texts to recording NW 924, New York: New World Records, 1977.

. White Spirituals from the Sacred Harp, introduction and texts to recording NW 205. New York: New World Records, 1977. Lowens, Irving. "Introduction to the Facsimilie Edition," Kentucky Harmony. Minneapolis: Augsburg Publishing House, 1976.

Wyeth's Repository of Sacred Music. New York: Da Capo Press, 1974.

Wyeth's Repository of Sacred Music, Part Second. New York: Da Capo, 1964.

New York: W. W. Norton & Co., 1964.

Macdougall, Hamflton C. Early New England Psalmnody--An Historical Appreciation 1620-1820. Brattle-boro: Stephen Doyle Press, 1940.

Metcalf, Frank J. American Psalmnody, of Titles of Books Containing Tunes Printed in America from 1721 to 1820. New York: Charles F. Heartman, 1917.

Music. New York: Russell and Russell, 1925.

Writers' Program of the Work Projects Administration in the State of Missouri. Missouri, A

100

Guide to the Show Me State. New York: Hastings House, for the Missouri State Highway Department, 1941.

Nettl, Bruno. Folk and Traditional Music of the Western Continents. Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1965.

Patterson, Daniel W. "Introduction," to facsimilie edition, <u>Social Harp</u>. Athens: University of Georgia Press, 1973.

Perrin, Phil D. "Pedagogical Philosophy, Methods. and Materials of American Tune Book Introductions: 1801-1860." Journal of Research in Music Education 18 (Spring 1970):65-69. Century American Tune Books." Journal of Research in Music Education 18 (Fall 1970):257-

. "Theoretical Introductions in American Tune-Books from 1801 to 1860." D.M.A. dissertation, School of Church Music, Southwestern Baptist Theological Seminary, 1968.

Pierik, Marie. The Psalter in the Temple and the Church. Washington, D.C.: Catholic University of America Press, Inc., 1957.

Revitt, Paul J. The George Pullen Jackson Collection of Southern Hymnody, A Bibliography.
Los Angeles: UCLA Library Occasional Papers, No. 13, 1964.

Rogers, Samuel Kirby. "The Social and Pedagogical Function of 'The Worcester Collection,' 'The Village Harmony,' and 'The Easy Instructor' in the Early-American Singing School." Ph.D. dissertation, Florida State University, 1969.

Rosewall, Richard Byron."Singing Schools of Pennsylvania, 1800-1900." Ph.D. dissertation, University of Minnesota, 1969.

Shaw, Ralph R., and Richard H. Shoemaker. American Bibliography 1801-1819. New York: Scarecrow Press, 1966. Smith, Harry. American Folk Music, introduction and texts to recordings FA 2951, FA 2952, and FA 2953. New York: Folkways Records and Service Corp., 1952.

Stevenson, Robert. Protestant Church Music in America. New York: W. W. Norton Co., Inc., 1966.

Warrington, James. Short Titles of Books Relating to or Illustrating the History and Practice of Psalmnody in the United States 1620-1820. Philadelphia: Private printing, 1898.

Williams, C. F. Abdy, The Story of Notation. New York: Charles Scribner's Sons, 1903.

Willman, Fred. "A Brief Historical Study of the Singing Schools and Shape Notes and Implications for Music Education Today." Missouri Journal of Research in Music Education 3

つつつ

SAMUEL COLERIDGE-TAYLOR: AN ANALYSIS OF SELECTED PIANO WORKS AND AN EXAMINATION OF HIS INFLUENCE A SOURCE BOOK ON BLACK AMERICAN MUSICIANS: FOR TEACHERS

Washington University, 1977 John C. Batchman, Ed.D.

Born in 1875 Samuel Coleridge-Taylor is probably the first three times before his death in 1912. Coleridge-Taylor and his visits exerted a great deal of inof an African father and an English mother, this fluence on Black Americans, especially the Black Anglo-Black composer visited the United States internationally known Black composer. musicians, which is still felt today.

biographical information on the composer and his Chapter one of this dissertation deals with two children. The influence on Black American musicians by the composer and his visits to America are dealt with in Chapter two. His three visits are discussed in detail. This is followed by a discussion of the results of his visits.

classifications of these compositions. The last portion of this chapter deals with the analysis of Beginning Chapter three is an introduction to the plano works of Coleridge-Taylor, together with selected piano works. Chapter four serves as a summary in which a discussion is made of the style of Coleridge-Taylor in his piano works. The last chapter contains a thematic index of most of the piano works, together with information which, hopefully, will be of help to teachers of piano. This information includes a possible problem areas in the performance of these classification of difficulty, general remarks on compositions and historical information on the composition is given when available.

### **ABSTRACT**

PERSPECTIVES FOR DEVELOPING PRINCIPLES AND GUIDE-LINES IN THE CONSTRUCTION OF THE GENERAL MUSIC CURRICULUM FOR AMERICAN ELEMENTARY SCHOOLS: AN ECLECTIC APPROACH

Washington University, 1975 Rene Boyer, Ed.D.

many years the discipline of music in education has or extra-curricular subject and has therefore been and parents, as being superfluous in the real task The need to defend music education as a vital frequently been regarded and treated as a special considered by certain educators, administrators, evident to the contemporary music educator. For part of the curriculum is becoming increasingly of education.

objectives of his particular area of specialization, cator must address himself, not only to the problem of defining explicitly and coherently the aims and In order to combat this problem the music eduhis justifying the role of music in the curriculum and for developing the music education curriculum. as theoretical reason to serve as a basis for both but also have a substantial philosophical as well

learning that have influenced the particular trends evident in that development, while paying attention to the social, political, and cultural factors that The achievement of these goals can best be pursued by a method which, first of all, takes into consideration the historical development of music education. It should also focus on those philosophical theories and psychological approaches to nave determined its direction. In this dissertation therefore, after survey-ing the major trends and directions that music edu-cation has followed until the present decade (focusing on early childhood K-6), we turn our attention

undergirding the construction and development of curricula. We then consider Essentialism and Pragmatism as those two philosophies which best represent the polarities implied in the child versus adult duality which has been set forth. to the proposition of two rationales--adult versus child centered--which facilitate the task of pretheories of education which can be thought of as senting succinctly the numerous philosophical

are closely linked with the philosophical rationales Behaviorism and Gestalt -- in an attempt to determine is considered of particular importance because they the kinds of strategies that have been used in the execution of the music education curriculum. The We proceed by focusing attention on two major treatment of such psychological learning theories psychological learning theories--Associationism/ that undergird curriculum development. With the foregoing background and analyses completed, we conclude this study with the proposal of a set of eclectically developed principles and guidelines which have been arrived at as a result of our previous investigations.

formance, technical, and aural), of critical ability, the ability to conceptualize, and creativity, which all come to fruition in a consciousness of the musisent as the Five C's, stress the construction of a kind of curriculum which considers the mutual development of competence in musical skills (perlearning that are crucial to the total development of the individual in the educative process. fully integrated in that it combines both the cog-The principles, which we have chosen to precal aesthetic experience. Such a curriculum is nitive as well as the affective constituents of

development and construction of a music education curriculum, they will hopefully obviate the need When the full import of these principles is grasped by the educator and used wisely in the

innovation and tradition that seems to characterize the process, not only of music education, but also of general education. This will be possible since for the constant movements back and forth between we have attempted to combine in these principles those facets of traditional approaches, tried and true, with the characteristics of the innovative processes that are most suitably adapted to the needs of the learning community. Finally, although the burden of the consideration of music curriculum construction is to be found in the study of the elementary years, especially in the historical section, the principles which emerge are generally applicable to grades K-14.

### ABSTRACT

MUSIC IN CHAUCER: TROILUS AND THE DREAM POEMS

University of Missouri-Kansas City, 1977 Linda C. Ferguson, D.M.A.

works. For the most part, however, literary scholars music. Both literary and music scholars acknowledge have tended to dismiss musical references as conven-The poetry of Geoffrey Chaucer (ca. 1340-1400) recognized Chaucer's poetry as an available primary pendium of information on many subjects, including source of information, they have seldom considered the allusions in their poetic contexts. In this more, the relationship of the musical allusions to tional ornaments, and while music historians have study, an attempt is made to arrive at statements regarding musical practices and attitudes in the society represented by this literature. Furtherhas long been viewed as a rich and reliable comthe abundance of musical allusions in Chaucer's their literary contexts is established.

The following poems form the basis for the project: Troilus and Criseyde, The Book of the Duchess, The House of Fame, The Parliament of Fowls,

treated by Chaucer, and which carried, for Chaucer's cause extensive prior knowledge of the poems on the part of the reader is not assumed, discussion of each poem is introduced with basic information, infive poems. The numerous references include harps, cluding date, sources, occasion, plot, themes, and general interpretations, before the musical implications are described. A systematic extraction of bells, pipes, horns, trumpets, clarions, tabors, carolling, dancing, and singing, as well as explanations of music of the spheres, descriptions of audience, associations that are not obvious to the a form, or an attitude. Related sources are cited It is concluded that musical allusions estabin many cases, to provide a more complete medieval musical allusions was undertaken for each of the Music is depicted as vital to societal functions, their structural and thematic significance to the poems in which they appear; each grouping constitutes a section which focuses upon a particular music in nature, and several intercalated lyrics. aspect of music, be it an instrument, a practice, Chaucer commentary have been extended by means of frame of reference for musical aspects which are modern reader. Suggestions derived from earlier musical research and speculation; in many cases, new proposals are offered regarding the signifiincluding worship, courtship, the military, and the hunt. Allusions are grouped to demonstrate cance and interpretation of musical allusions.

lish and support many integral themes in the poems, mental, spiritual, and physical awakening; attain-ment of immortality; and the mediation and reconincluding the ideas of consonance and dissonance in music, love, and nature; deafness to reason; ciliation of opposites. Moreover, music is frequently employed as a means of foretelling the future, and to support characterization.

It is summarized that Chaucerian musical allusions may be categorized under two headings: music

ings, functions as an affirmation of this reconcilia-tion and of belief in an ordered universe. prescribed order, are invariably expressed in musi-(i.e., music literally sung, played, or danced). Music of reason, which usually involves specula-tive, or theoretical, music, relies upon the basic the harp and the intercalated lyrics, Chaucer demonstrates that music of the heart and music of reason are resolvable. Reconciliation of opposing of the heart, and music of reason. The former decal terms. The idea of music provides, therefore, acter, and is usually depicted as practical music livers an emotional expression to or from a chara philosophical key to the reconciliation of such dualities as heart vs. reason, and senses vs. intellect. Medieval music, as represented in writachieved when the elements involved conform to a concept of proportionate relationships between numbers. Through such devices as the symbol of forces is a recurrent theme; such resolutions,

and the Prologue to The Legend of Good Women.

### **ABSTRACT**

THE EFFECTS OF DIFFERENT FAMILIAR AND UNFAMILIAR MUSICAL TIMBRES ON MUSICAL MELODIC DICTATION

Donald Louis Gephardt, Ed.D. Washington University,

dimensional, psychological attribute of musical tone, often is assumed to have little or no effect on the musician's ability to perceive pitch. At the college level the music-major student is expected to attain criterion levels in skills of musical dictation, which refers to the written transcription of heard musical material. This heard material most often is presented on the piano, because of its availability in the classroom, or on a variety of Musical timbre, which is defined as a multisound sources in recorded, programmed formats. The question arises, does this variable sound

relative familiarity with a particular sound source brought about through performance contact with that same sound source, aid the subject in these dicta-Also, does source have an effect on the student's ability to notate heard, melodic pitch patterns?

envelope sources); guitar, piano (both rapid-decay
envelope sources); synthesizer (saw-tooth waveform),
Mixed I (each successive trial in a different timbre) Dendent measure--a test of melodic dictation created colleges were grouped into five categories of like instrumentalists and tested individually in a dictation test of 140 melodic sequences of from two to six pitches in length (equal number of each length). edge of the exact sequence length. The task in-volved notating each pitch past the first in "wholetimbre, envelope of the sound source, length of the nelodic sequence and amount of task experience were by the author. Fifty, music-major, freshmen-sophomore subjects from three Long Island, New York investigated as to their possible effect on the devariables of differences in timbre, familiarity of Due to the many variables present both in any ing" or presenting these variables. Using the reried out to determine optimum ways of "standardiz-The melodic sequences were presented in seven dif-ferent timbre sources in random order: B flat sults of this pilot study, five hypotheses were formed, stated in the null form. The independent of dictation presentation, a pilot study was cartrumpet, E flat alto saxophone (both steady-state and Mixed II (each successive tone in a different timbre). The synthesizer, Mixed I, and Mixed II nusical sound source itself, as well as in modes sequence was given and subjects had no foreknowltreatment was assumed to be of equal "difficulty" level although the actual musical material difdecay sound envelopes. The first pitch for each treatments included both steady-state and rapidnote" notation. Results were reported as error means for each, individual melody length. Each

differences in timbre, envelope of the sound source, and length of the melodic sequence all have a sigpost-hoc comparisons procedure to reveal where sigliar timbre. Task experience also was not significant, although sophomores (49.2 percent error) ubmentalists obtained their best score on their famiperformance. Three of four groups of like instru-Results revealed that not significant, although there is a definite sugthe BMDP-2V computer program and the Newman-Keuls nificant effect on melodic dictation tasks at the gestion that familiarity with the source affected The repeated-measures design was analyzed by .01 level. Familiarity of the timbre source was tained slightly better scores than the freshmen nificant results occurred. 55.0 percent error).

### ABSTRACT

AN EVALUATION OF MASSED AND DISTRIBUTED PRACTICE FOR THE TEACHING OF MELODIC REPETITION ADMINISTERED BY CLASSROOM TEACHERS AND A MUSIC SPECIALIST

University of Missouri-Kansas City, 1978 Kristin K. Gerth, M.M.E.

competency on a music concept when practice with the concept was supplied by the classroom teacher, in addition to the regular music periods or distributed practice, than children who received practice only dence that children would achieve a higher level of The problem of this study was to obtain eviin the regular music class or massed practice.

ar music class period and given additional practice regular music class schedule with the achievement of second and fourth grade students who were instructed with AVII model materials during the reguachievement of second and fourth grade students who The purpose of this study was to compare the were instructed by AVII model materials during a

113

with the concept by the classroom teacher.

ment on achievement or one cash, mercale five to The classes receiving massed practice heard five to examples daily, in the music class and regular classment on achievement of one task, melodic repetition. classes receiving distributed practice heard three The study was limited to the effect of treat-

measures research design was used for the investiga-A quasi-experimental, post-test only, repeated tion. A criterion instrument was constructed to measure achievement.

sponses on the criterion measure for achievement of The primary data consisted of the subject reconstituted secondary data. Oneway frequency distributions and ANOVA were used for testing the practice, scheduling of practice, and grade level the musical task, melodic repetition. Amount of hypotheses.

level effects achievement when the amount of practice is held constant. The fourth grade students achieved and maintained a higher identification level of the The findings in this study indicate that grade The children who reached the mastery level concept stimulus than did the students in second on the post-test were all fourth grade students.

structional period had a greater effect on memoriza-tion and identification of the concept than did the students who were given daily, distributed practice. scheduling correlated highly with the achievement on the post-test and retention test. Students re-The presentation of eight examples during the inceiving massed practice, exclusively within the music class, scored higher on the test than the In this study, the amount of practice and daily practice of three items.

Subject to the circumstances and limitations of this study, it was concluded that children did

practice, in addition to the regular music periods Children who received practice only in the regular The fourth grade students had a higher achievement level than higher level of competency on the concept. Also, supplied by the classroom teacher or distributed music concept when practice with the concept was not achieve a higher level of competency on the music class, or massed practice, did achieve a grade level was related to achievement in the identification of melodic repetition. did the second grade students.

### ABSTRACT

DISCUSSION AND TRANSCRIPTION OF THE THIRTEENTH-CENTURY MIDDLE ENGLISH RELIGIOUS MONODY, WORLDES BLIS

Daniel William Goodell, Ph.D. Washington University, 1978

Worldes blis appears in three manuscripts from widely separated areas in England. The lyric appears without music in one GB Ob MS. Digby 86, and with music in GB Ob MS. Rawlinson G.18 and GB Lb1 MS. Arundel Each of the three versions is studied in terms thirteenth-century Middle English religious monody. to provide a performance-edition of Worldes blis, a The primary objective of this dissertation is of its provenance (and that of its manuscript), of the verbal text, of the monodic setting, and (in parvo) of text in relation to monody.

formation provided by the contents of each manu-script as well as dialectal/linguistic indices found The discussions of provenance are based on inwithin the lyric itself. The lyric's verbal structures are examined, and a translation and phonetic transcription are given. Of particular concern is the treatment of final  $\langle e \rangle$ , which is examined in terms of monodic stress. The placement of pitches above final  $\langle e \rangle$  strongly supports the view that transcription are given.

Embellishments based upon the simple



Embellishments based upon the octave leap, Ξ



plus the intervals between tonic and



inal cadences which may range from a simple octave

composition in which it appears; that is, capable

of being removed without altering the work

leap or passing tone to complex arpeggiations or scale patterns." It must be independent of the

treatment of the final chord(s) in both middle and

A Cadential Embellishment is defined as "a

University of Missouri-Kansas City, 1978

Maureen A. Jais-Mick, M.M.E.

Embellishments based upon the intervals between tonic and dominant:



Embellishments based upon a simple arpeggiation of the final harmony:



Within each chapter are nine divisions of Cadential Embellishments:

<e>> was not only usually pronounced but carried more than minimal stress and therefore was phonetioctave leap:



The version of Worldes blis MS. Digby 86, without music, is "underlayed" to the monodies of MS. Rawlinson G. 18 and MS. Arundel 248. Various per-

formance considerations of Worldes blis are dis-

CADENTIAL EMBELLISHMENTS IN GERMAN KEYBOARD MUSIC OF THE SIXTEENTH, SEVENTEENTH,

ABSTRACT

AND EIGHTEENTH CENTURIES

discussed, and the performance-transcriptions are

then given.

or /e/, rather than as /8/. The two monodies are cally likely to be realized as something like /£/

but with more variety in its treatment:



Embellishments based upon the octave leap, dominant: III



1



vided by composers for: (I) Dance Suites, (II) Pre-ludes, (III) Fugues, (IV) Latin Church Music, (V) Chorale Preludes, (VI) Sonata/Concerto, (VII) Chamber

n later keyboard performance practice while Chapters contemporary sources. Succeeding paragraphs propose the existence of improvised Cadential Embellishments

One through Nine contain extant embellishments pro-

of Ileborgh (1448), Conrad Paumann (1452), and other century cadential formulae taken from works of Adam

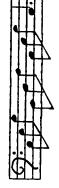
Introductory material presents pre-sixteenth

Music, (VIII) Variations, (IX) Miscellaneous Composi-

Z



VII Embellishments based upon arpeggiation of the final harmony, but with the addition of passing tones and an occasional foreign harmony:



VIII Embellishments based upon conjunct motion:



IX Miscellaneous Embellishments:

A final chapter, dealing with differences in style among modal and tonal Cadential Embellishments, improvisation of embellishments, and addition of embellishments to cadences which lack them is the goal of the thesis; the preceding chapters are considered the necessary foundation for such a discussion.

### ABSTRACT

AN EXPERIMENTAL STUDY OF THE RELATIONSHIP BETWEEN MUSICAL NOTE-READING AND LANGUAGE READING

Daniel Lew Roberts, M.M.E. University of Missouri-Kansas City, 1978 The problem of the study was to investigate the effects of a regular program of practice in note-reading on the rate of word-reading (RWR) in below normal readers. Level of pretest RWR scores, sex, and age were identified as variables in the study.

The purpose of the study was (1) to evaluate the RWR gains of fifth grade students of below normal RWR who were given a six-week program of daily note-reading practice on a keyboard instrument, and (2) to compare these results with the RWR gain of fifth grade students of below normal RWR who were not given the program of daily note-reading practice, when pretest RWR scores, sex, and age were held constant.

The research was a separate sample pretest-posttest experimental-control equivalent materials true-experimental design. Achievement in RWR was sampled in one grade level of below normal readers who were enrolled in remedial reading classes.

The instrument used for measurement was the Basic Reading Rate Scale (BRRS), Forms A and B, by Miles A. Tinker and revised by Ronald P. Carver (Revrac Publications: Silver Spring, Maryland, 1971).

The sample of thirty-six subjects consisted of students who were enrolled in fifth grade remedial reading classes in the six elementary school of the Grandview Consolidated School District No. 4 Grandview, Missouri. All schools have predominantly white populations and are in the lower- through

117

upper-middle socio-economic bracket. Although all subjects in fifth grade remedial reading were used, eighteen subjects were randomly designated as the experimental group, and seventeen were randomly designated as the control group. Complete sets of data for thirty-three subjects were obtained.

Form A of the BRRS was administered as the pretest. Subjects in the experimental group were instructed to practice for speed for ten minutes each school day for six weeks on specially prepared note-reading sheets. These exercises increased gradually in difficulty according to numbers of notes played. All subjects were then posttested with Form B of the BRRS, and the data were computerprocessed for statistical significance by one-way analysis of variance. Planned comparisons were means.

No significant gain in RWR was demonstrated by subjects in the experimental group as a whole, but subjects who pretested in the lower half of the group did increase significantly over the control group. No significant difference was demonstrated according to sex or age.

Within the limitations and circumstances of the investigation, the program of note-reading practice appears to have been effective only for increasing the RWR of very slow readers. Further investigation under other circumstances is warranted before positive conclusions can be reached.

## A COMPARATIVE STUDY OF GROUP INSTRUCTION AND SELF-INSTRUCTION USING TWO MUSICAL TASKS: OBOE TIMBRE IDENTIFICATION AND MELODIC SEQUENCE IDENTIFICATION

Jimmy Kay Trenkle, M.M.E. University of Missouri-Kansas City, 1977 The problem of this study was to determine if group instruction was as effective as self-instruction when AVII models were used.

The purpose of this study was to compare the achievement of third grade students instructed in a self-instructed format and the achievement of third grade students instructed in a group instructed format using AVII model materials on two musical tasks, oboe timbre identification and melodic sequence identification.

A quasi-experimental intact-group pretest-post-test equivalent materials research design was used. A criterion instrument was constructed to measure achievement.

The responses on the criterion measure for achievement by subjects on two musical tasks constituted the primary data. Kind of task, school, age, reading level, and sex were the secondary data.

The first grade self-instructed class had a significant mean gain on oboe achievement when type of instruction was considered. Mean gain on sequence achievement was significantly lower. It appears that a first grade student with a limited vocabulary would rely more upon pictures as a mode of reading. Type of task, reading level, or sex had a minimal effect on the type of instruction. There was no significant difference on sequence achievement for self-instructed, group instructed, and no instruction third grade classes. There was

a significant difference on oboe achievement when reading level and age were considered. Subject to the limitations and circumstances of this study, it was concluded that there were no significant differences between group instruction and self-instruction.

MODALITY, TONALITY AND MUSICA FICTA IN THE SIXTEENTH-CENTURY CHANSON

Washington University, 1978 Rhian Samuel Curtis, Ph.D.

musica ficta practices are understood. The rules which govern these practices and exceptions to these by Renaissance theorists. In this study their comments are appraised. rules are described in detail, albeit haphazardly, idiom of the polyphonic chanson underwent a metamorphosis which can be clearly assessed only if During the sixteenth century, the harmonic

The term musica ficta includes both printed accidentals and those added by the singer in performance: a study of the former helps illuminate the latter. The Mellange de chansons (Paris: Le Roy and Ballard, 1572), a retrospective collection of the polyphonic chanson containing 148 pieces, is an ideal vehicle for the examination of printed musica ficta.

dence are combined, the constantly changing trends of musica ficta addition are discerned. Accidentals When theoretical commentaries and musical evi-An early chanson, using accidentals only to comply function tonally, that is, they create chord progressions associated with a tonal idiom. These phenomena have only local implications, however. added to conform to theoretical rules generally

While it may sometimes arise from a rule of modal and tonal chord progressions. Later chansons indicate a new perception of the role of the acciwith musica ficta rules, may sound inconsistent to the modern listener, since it vacillates between musica ficta, it is often added specifically to maintain the tonal idiom heard elsewhere in the dental. chanson. In the Mellange we occasionally see addition of ficta that conflicts with the style of the chanson itself, when accidentals in early chansons have been added editorially to conform to a later harmonic style. These anomalous accidentals must be removed for a true assessment of the chanson's idiom. We does not inflect the tone it precedes but functions also see some examples of the cautionary sharp (in the chansons of Nicolas de La Grotte). This sharp as a natural sign.

ing role of the sharp, it also provides a glimpse of While this study permits us to assess the growthe conservative use of the flat in early chansons, added with caution, lest they eradicate the elusive modal idiom employed in these compositions. warning the modern editor that accidentals must be

MUSIC AS REINFORCEMENT IN INCREASING SPONTANEOUS SPEECH AMONG AUTISTIC CHILDREN

University of Missouri-Kansas City, 1978 Darlene Watson, M.M.E.

quency of response when using various types of reinforcement: (1) tokens exchanged for a music session led by a music therapist or a music therapy student, increasing spontaneous speech among autistic/chilwhether music could be an effective reinforcer for dren. The purpose was to compare the average fre-The problem in this study was to determine

(2) unspendable tokens, or (3) tokens exchanged for a taped music session led by a classroom teacher. Subjects of the experiment were ten students, aged for Exceptional Children in Kansas City, Missouri. seven through sixteen years, from Sherwood Center

Average token number for each treatsession led by a music therapist or a music therapy student), Treatment B (unspendable tokens), Treatsubject had met a particular criterion for two conment C (tokens exchanged for a taped music session led by a classroom teacher), and Final Treatment A (repetition of Treatment A). Tokens were awarded established, based on response of the first day of the experiment, and was increased by one after the ment phase was compared to assess effectiveness of The experiment consisted of ten-day training segments for each of the following treatments: Initial Treatment A (tokens exchanged for a music towards a peer. A criterion number of tokens was each time a subject spontaneously emitted speech each type of reinforcement. secutive days.

or a music therapy student as reinforcement, produced even more responses than the initial training of the same treatment. Therefore, this final training profinal training, using music led by a music therapist When comparing the effectiveness of the various therapy student as reinforcement produced a signifimusic session led by a music therapist or a music although once again this treatment was less effective than music led by a music therapist or a music cantly greater number of responses than either the use of unspendable tokens for reinforcement or the of taped music sessions led by a classroom teacher, duced significant improvements over the use of unspendable tokens for reinforcement of the use of taped music sessions led by a classroom teacher as reinforcement. The use of unspendable tokens produced significantly greater responses than the use treatments, training using tokens exchanged for a led by a classroom teacher as reinforcement. The use of tokens exchanged for taped music sessions

ment. Taped music sessions led by a classroom teacher proved to be the least effective of all treatments. therapy student in either the initial or final treata music therapist or a music therapy student as reinforcement (Initial Treatment A), the use of unspendsignificantly greater responses than the taped music sessions led by a classroom teacher. In summary, least effective, final training using music led by a the highest were initial training using music led by rating the various treatments from most effective to able tokens as reinforcement (Treatment B), and the rating. Treatments listed in decreasing order from Initial and final treatments using music led by a music therapist or a music therapy student produced music therapist or a music therapy student as reinforcement (Final Treatment A) received the highest use of taped music sessions led by a classroom teacher as reinforcement (Treatment C).

priate because they so nearly parallel real classroom suitable caution. Findings, however, are more approintervening variable must be considered for complete understanding of the study. What began as ten sub-A were conducted with all children in one classroom. distributed among three separate classrooms. In view of this fact findings must be interpreted with Christmas vacation. Baseline and Initial Treatment During the remainder of the study the children were When evaluating the results, an uncontrolled subjects in three different classrooms after the jects in one self-contained classroom became ten situations.

It can be concluded that music was an effective musical activities led by a music therapist or music the other treatments, however. This indicates that All treatments, including reinforcer for increasing spontaneous speech among to the baseline average. The treatments utilizing music sessions led by a music therapist or a music the one using unspendable tokens as reinforcement, showed significant increases of responses compared therapy student were effective in increasing spontherapy student showed far greater increases than taneous speech among the children. these autistic children.

### MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

Volume IV

Number 3

1979

Published by the

Missouri Music

**Educators Association** 

### MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

### Published by the Missouri Music Educators Association

Vo1ume	IV	1979	Number	3
I.	ing Spontaneous Autistic Childr Darlene Watso	rcement in Increase Speech Among en on, University of as City		8
II.	A Study of Seve	eral Methods of by's Changing Voic Willman, Universit	y	21
III.	action Analysis Teaching Behavi of School Insti Education Stude	ors and Attitudes rumental Music ents Studying icks, University		36
IV.	Centered Ration Approach to the in Curriculum Special Applic Education Rene Boyer,	ered vs. the Adult naleA Dualistic e Use of Philosoph Development with ation to Music Cincinnati Con- Music	ny	48
٧.	Selected Abstr	acts in Music Edu	cation	
	dential Adm Influence of States 1945 Cynthia N	ruman and His Presinistration as an Indicate In Music in the Universion Atwell, Universion-Kansas City .	ited ity	87

B. Recognition of Chest, Head and Falsetto Registers of Isoparametric Chones of Tenor Voices Charles L. Beard, Jr., University of Missouri-Kansas City 88  C. Jacques Hotteterre's L'art De Preluder (For Wind Instruments)—  A Translation and Commentary Margareth Anne Boyer, University of Missouri-Kansas City 91  D. A Conductor's Analysis of and Preparation and Approach to Polyrhythms in Certain of the Choral Works of Charles E. Ives Jack C. Groh, University of Missouri-Kansas City	I. The Phi Factor: Mathematical Proportions in Musical Forms James A. Rothwell, University of Missouri-Kansas City	
Recognition of Chest, Head and Falsetto Registers of Isoparametric Tones of Tenor Voices Charles L. Beard, Jr., University of Missouri-Kansas City  Jacques Hotteterre's L'art De Preluder (For Wind Instruments)— A Translation and Commentary Margareth Anne Boyer, University of Missouri-Kansas City  A Conductor's Analysis of and Preparation and Approach to Polyrhythms in Certain of the Choral Works of Charles E. Ives Jack C. Groh, University of Missouri-Kansas City		
	and and sopara- sices Univer- tr De trary University University University  tr of tr Solo olins, do Leo university  r Solo olins, dren niversity y r Direc- Analysis e Tech-	y

103

100

Factor: Mathematical ions in Musical Forms

#### MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

Editor: Jack R. Stephenson

Conservatory of Music

University of Missouri-Kansas City

Kansas City, Missouri 64111 Telephone: 816 363-4300

#### Editorial Committee:

Tilford Brooks
Department of Music
Washington University
St. Louis, Missouri 63130
Telephone: 314 889-5585

Charles Emmons
Department of Music
University of Missouri-Columbia
Columbia, Missouri 65201
Telephone: 314 882-3438

June Jetter Conservatory of Music University of Missouri-Kansas City Kansas City, Missouri 64111 Telephone: 816 363-4300 ext. 206

F. Bion McCurry
Department of Music
Southwest Missouri State University
Springfield, Missouri 65802
Telephone: 417 836-5000

Douglas Turpin
Director of Music-Parkway Public Schools
465 Northwoods Mill Road
Chesterfield, Missouri 63017
Telephone: 314 434-8412

Fred Willman
Department of Music
University of Missouri-St. Louis
8001 Natural Bridge Road
St. Louis, Missouri 63121
Telephone: 314 453-5901

### Submitting Manuscripts:

- (See page 5 for the address.) Contributions to this journal should be sent to the editor.
- The editors welcome contributions of a philosophical, historical or scientific nature which report the results of research pertinent to instruction in music in the educational institutions of Missouri. ۲,
- Spacing throughout including footnotes, long Articles should be typewritten with double quotations and itemized lists. ლ
- substitute a list of references for footnotes in accordance with practice followed in many Footnotes should be placed consecutively at Authors reporting quantitative studies may the end of the article beginning on a new page using double spacing between notes. scientific journals. 4.
- Manuscript style should follow recommendations Manual of Style should be followed in setting up tables, charts and figures, which should made in the MLA Style Sheet. The Chicago be numbered and placed on separate pages. <u>ي</u>
  - All contributors are advised to keep a copy of any manuscript submitted. The Editorial Committee cannot be responsible for loss of manus cripts.

### Securing Copies:

- Requests for the current and back issues should be made directly to the editor. -;
- current issue, \$2.00. Costs including mailing: Back issues, \$1.00.

#### PREFACE

interests of teachers of music in Missouri and the Education, published by the Missouri Music Educanation. This issue, Volume IV, Number 3, is the The Missouri Journal of Research in Music tors Association, is devoted to the needs and eighteenth to appear in as many years.

music theory, history, philosophy, aesthetics, and grateful to those readers who have written sugges sent to the Editor concerning the content of this We'strive for a reasonable balance among request that criticisms and suggestions again be tions concerning the content of past issues and The members of the Editorial Committee are pedagogy. ssue.

support to make it possible to continue to publish We express our deep gratitude to the Missouri the Missouri Journal of Research in Music Educa-Music Educators Association for their financial

### The Editorial Board

# MUSIC AS REINFORCEMENT IN INCREASING SPONTANEOUS SPEECH AMONG AUTISTIC CHILDREN

### Darlene Watson Instructor in Music Therapy University of Missouri-Kansas City

One of the most obvious problems of the autistic child is his inability to express himself verbally. Many of these children are completely nonverbal or offer verbal responses only after much prompting. Inappropriate sounds or verbal responses are sometimes emitted in addition to frequent echolalic responses. Some children speak to adults but never attempt speaking to peers. To increase the frequency of appropriate verbal response would be an appreciable step towards socialization and normalization. Music seems to be an effective reinforcer to increase desirable behaviors among children.

The purpose of this investigation was to compare the average frequency of responses using various types of reinforcement: (1) tokens exchanged for a music session led by a music therapist or a music therapy student, (2) reinforcement of unspendable tokens, or (3) tokens exchanged for a taped music session led by a classroom teacher.

That communication is a prime problem area for the autistic child has been stated in several research studies (Prior, 1977; Provonost, 1961; Euper, 1968; Hargrave and Swisher, 1975; Metz, 1965; Colby and Smith, 1971; Ratusnik and Ratusnik, 1974, Lovaas, 1974). Many researchers also suggest that music is a high interest area among autistic children (Kanner, 1971; Sherwin, 1953; O'Connell, 1974). Behavior modification has been seen as a successful teaching approach when dealing with the autistic child (Lovaas, 1974; Ferster, 1961; Ferster and DeMyer, 1962; Lovaas, 1973). Several studies have utilized music in a behavior modification treatment plan because the behavior modification approach seems to bring positive results and because music has been

proven to be a high interest area among autistic children (Stevens and Clark, 1969; Jorgenson, 1974; Schmidt et al., 1976; Reid et al., 1975). In previously mentioned studies, the teaching during music sessions bore positive results. The present study takes the position that music can be used as stills. Little, if any research has taken this skills. Little, if any research has taken this approach. The communication goal in this study was approach. The communication goal in this study was already imitate sounds and words, label things, and obey commands. They were at a level where pronouns, obey commands. They were at a level where pronouns, taneous verbal expression was being taught. Spontaneous verbal expression was being made previous

#### Method

#### Subjects

The subjects used in this experiment were chosen by a purposive assignment. Ten children from the Sherwood School for Exceptional Children in Kansas City, Missouri were the subjects in this study. These children all exhibited characteristics and behaviors typically associated with autism. Ages of these children ranged from seven to sixteen years and nine of the ten were males. Intelligence jevels varied; there was a distribution of below levels average and above average functioning average, average and above average functioning seme age in public schools.

### Apparatus

The music room measured approximately fourteen feet by ten feet and was fully carpeted. There was adequate space for all activities to be carried out, yet the room was small enough to provide a feeling of closeness. The only source of distraction to

most of the children was the musical equipment brought into the room by the therapists. Other items in the room were successfully ignored by all subjects except for Subject X. This child sometimes watched people passing in the hallway and on one occasion ran into the pastor's office.

#### Procedure

In this experiment each subject was used as his own control. Two-week treatment training segments included each of the following types of reinforcements:

- 1. Treatment A--Tokens were given for spontaneous speech with an individualized pre-established number of accumulated tokens needed to attend music sessions led by a music therapist or a music therapy student.
- ?. Treatment B--Tokens were given for spontaneous speech with nothing for exchange.
- Streatment C--Tokens were given for spontaneous speech with a pre-established number of accumulated tokens needed to attend music sessions led by a classroom teacher. The teacher used a specially constructed tape of recorded musical activities in the music session.

Subjects could earn tokens Monday through Friday from 9:00 a.m. until 1:00 p.m. except during lunch and outside play. Classroom teachers reported that lunch and outside play were too unstructured to allow for the accurate observation necessary in the experiment. Tokens could be earned, therefore, only in the classroom setting and were administered by the classroom teachers.

After consultation with the staff of Sherwood Center, a desirable behavior which had a low frequency of occurrence among all subjects was chosen. A baseline was taken of this behavior, spontaneous speech with peers, and it was established as the target behavior of the study. The mean number of baseline responses was less than one for eight of

the ten subjects. The remaining two subjects made less than four responses. A token reinforcement system was designed. In this study the tokens consisted of metal washers which were placed into a clear plastic cup with the subject's name on it. Because the token system was a new process for the students, a training period for learning and adjusting was constructed. A two-week period was used to train the students how to accumulate tokens and how to exchange them for music.

the one token. Tokens were given immediately after The initial criterion for all students was set at one prompted verbal response per day (one token) jects who had earned at least one token during the earmed one prompted token, the criterion was immean appropriate response. During the second trainprevious week. A new criterion was set for these criterion was retained for those subjects who had end of the second week all subjects had earned at subjects at one unprompted token, while the first to earm the privilege of attending music. Classdiately changed to one unprompted token. By the ing week prompting was discontinued for all subso that they had the maximum opportunity to earn room teachers consistently prompted the subjects least one unprompted token and were prepared to When these students begin the actual experimentation. not yet received a token.

During this training period musical activities were introduced and their reinforcing effect was observed. Activities using musical instruments, activities utilizing movement and songs were selected for use in this study on the basis of the observed outcome. A tightly structured session and simple directions proved to bring about the most successful experiences for the subjects.

After a baseline for the target behavior was established, the token system was trained and effective musical activities found, the actual experiment began. For the first two weeks of the experimental period Treatment A was administered. Tokens were awarded for each spontaneous verbal

interaction. If the criterion number of tokens was generated. When students returned to school Treatthe music session, and any comments made by teachers Instructions or supplies were provided by the music ble for organization and structure of the students. therapist for the teacher. Methods of charting bemusic or other reinforcement was available for exchange. After two weeks of this phase of the extherapist and music therapy students were given to ment B began. Subjects still earned tokens daily for spontaneous verbalizations with peers, but no provided, the classroom teacher was only responsias in previous treatments. A final segment of the haviors and increasing criteria remained the same scribed number of tokens. Daily charting was kept met, the subject was permitted to attend a music session led by a music therapist or music therapy time as in Treatment A, but the music session was led by a classroom teacher instead of a music to record the number of tokens earned, the current cassette tapes provided examples of music activiexperiment repeated Treatment A. Again the music the previous treatment plan. Since the music was criterion, music sessions attended, activities of periment, Treatment C began. Tokens earned for spontaneous speech could be exchanged for music ties that had been previously used by the music cordings while others were songs sung and accompanied by the music therapist to best reproduce student. At the end of that period a two-week vacation from school occurred and no data were sessions for students who had acquired the pretherapist and music therapy students led daily therapist or music therapy student. Prepared the class room teacher to use for the two-week period. Some of the selections were from reor music therapists.

The schedule of increasing the number of tokens required to attend music was: (1) on day one of the experiment everyone earning one token or more was admitted to music, (2) on day two the criterion was set at whatever number of tokens were earned on day one, (3) when that number had been reached for two

consecutive days the criterion was increased by one. This pattern was continued throughout the experiment. A prescribed number of tokens must have been received for two successive days before the criterion was changed to one plus the previous number. Only when the criterion was met were subjects admitted to music.

In this study one registered music therapist and two music therapy students led the sessions. Random rotation of these leaders was used. In this way the effect of the therapist was controlled to determine the effect of music as a reward rather than the therapist who presented it. The same activities were carried out by the registered music therapist and the music therapy students. At least one song, one movement activity and one activity using musical instruments was presented each session. The music therapist demonstrated the activities for the music therapy students before permitting them to lead sessions, so that consistency would be maintained.

The categories or phases of the experiment were: (1) baseline, (2) training of the token system, (3) Initial Treatment A, (4) Treatment B, (5) Treatment C, and (6) Final Treatment A. Charting of the average number of responses of each subject for each phase of the experiment are found in Table 1. Comparisons of the various treatment methods as defined in the hypothesis will show the most effective reinforcers to increase the desired behavior.

To analyze the data, the t-test for related measures was used. The test was used to determine the significance of difference between two correlated means. Results can be found in Table 2. The formula for determining computations was as follows.1

$$= \sqrt{\frac{\Sigma D^2 - \overline{V}}{N}}$$

$$= \sqrt{\frac{\Sigma D^2 - (\Sigma D^2)^2}{N}}$$

-

MEAN NUMBER OF RESPONSES FOR EACH TREATMENT

Final Treat.A	4.30 4.625 6.86 6.40 9.30 23.20 3.50 7.00
F Treat.C T	1.50 2.70 2.70 2.00 6.77 3.44 3.44
Treat.B	
Initial Treat.A	2.70 2.50 3.50 8.70 12.50 20.60 10.90 6.10
Base- line	
Base Subjects line	111 111 111 111 111 111 111 111

Table 2 t-TEST FOR RELATED MEASURES

Baseline X .665	Initial Treatment AX 7.41	t 4.11**
	Treatment $8\overline{X}$	t 3,81**
	Treatment CX	; ; ; ;
	Final Treatment $A\overline{X}$	2.6/* t
.665 Initial Treatment $A\overline{X}$	7.98 Treatment $8\overline{X}$	4.94** t
7.41 Initial Treatment $A\overline{X}$	$\frac{2.80}{1.80}$ Treatment $6\overline{X}$	3.69** t 5 E1**
Initial Treatment $A\overline{X}$	Final Treatment AX	
-	Treatment $C\overline{X}$	g. + 8
	Final Treatment $A\overline{X}$	
	Final Treatment $A\overline{X}$ 7.98	t. 4.33**

\*p <.01 \*p <.05

The hypothesis, stating that there would be no significant difference (.05 or less level) in the average frequency of response using various types of reinforcements, was rejected. There was significant difference (.01 level) between Baseline  $\overline{X}$  and  $\overline{X}$ 

### The Purpose

as reinforcement (Treatment B), and the use of taped pist or a music therapy student as reinforcement (Initial Treatment A), the use of unspendable tokens forcement (Final Treatment A). Remaining treatments listed in decreasing order of effectiveness were pare the average frequency of response using various sions led by a classroom teacher were used as reinforcement. In summary, the most effective treatcantly increased the average response of the base-line. The greatest increases were found when music led by a music therapist or a music therapy student was used as reinforcement. There was a significant music therapist or a music therapy student as reinused as the reinforcement and when taped music sesmusic sessions led by a classroom teacher as reininitial training using music led by a music thera-The purpose of this investigation was to comment was the final training using music led by a types of reinforcement. All treatments signifiincrease, however, when unspendable tokens were forcement (Treatment C).

### The Problem

The problem in this study was to determine whether music could be an effective reinforcer for increasing spontaneous speech among autistic

666

children. All treatments showed an increase in the average number of responses from the baseline. Baseline average was less than one response (.665) whereas all treatment averages were well above this number. What was a near zero daily number of spontaneous speech occasions was greatly increased as a result of the various treatments. More specifically, Initial Treatment A, which used music sessions led by a music therapist or a music therapy student for reinforcement, averaged 7.41 daily spontaneous speech occasions for each of the subjects. Treatment B, which used the unspendable tokens for reinforcement averaged 2.80 daily spontaneous speech occasions led by a classroom teacher as reinforcement, averaged 2.43 daily spontaneous speech occasions for each of the subjects. Final Treatment A, which was a repeat of the Initial Treatment A, averaged 7.98 daily spontaneous speech occasions for each of the subjects. The most responses were given when the reinforcement was a music session

### Discussion

sponses for Treatment B and Treatment C was so simi-

a classroom teacher showed the fewest spontaneous speech occasions. The average daily number of re-

reinforcement. Music sessions on tape and led by

taneous speech interactions was produced during Treatment B, which used unexchangeable tokens as lar, however, that the difference was not statisti-

cally significant.

It can be concluded that music was an effective reinforcer in increasing spontaneous speech for these autistic children. All treatments, including the one using unspendable tokens as reinforcement, showed significant increases of responses compared to the baseline average. The treatment utilizing music

sessions led by a music therapist or a music therapy student showed far greater increases than the other treatments. This indicates that musical activities led by a music therapist or a music therapy student were extremely effective in increasing spontaneous speech among the children.

It is interesting to note that unspendable tokens as reinforcement showed greater increases of response than taped music sessions led by a classroom teacher. The tokens themselves, obviously had reinforcing quality. The taped sessions led by the teacher were less appealing to the children than earning the tokens with nothing for which to exchange them.

in this experiment what started out to be ten subtions by which to study the effect of a treatment. view of these facts, findings must be interpreted may have caused inconsistencies in the study. In One of the problems in a field study is that classroom. During the remainder of the study all it is not possible to maintain laboratory condi-Findings, however, are more appropriate because they so nearly parallel real classroom settings. jects in one self-contained classroom became ten subjects in three different classrooms after the Christmas vacation. Baseline and Initial Treatclassrooms. Other variables such as illness of students and teachers, and school cancellations ment A were conducted with all children in one children were distributed among three separate with suitable caution.

led by a music therapist or a music therapy student.

Both the initial treatment and the final treatment

produced much higher average responses than the other treatments. The next highest number of spon-

Music appeared to be reinforcing to the children from the start of the experiment. All children were anxious to attend music; there was not one example of a child who met his criterion and then did not choose to attend music. After tokens were counted and the children were informed if they had accumulated enough tokens to enable them to go to music, reactions to the outcome were obvious. Those children unable to attend often pouted, cried, or quickly began talking to peers, hoping that it was not too late to earn more tokens.

16

When a child was not permitted to attend music he usually met his criterion on the following day.

behavior could easily be changed to any appropriate the instigation of music as a reward in a token sys-The author would encourage replication of this cal rewards for which to exchange tokens. Perhaps still appears that music, led by a music therapist or a music therapy student, was a reinforcing eleobserved in a classroom setting. Other variations of the study would be to develop a choice of musias additional social skills could be improved with cates the probability that academic skills as well Considering the variables in this study though, it a number of minutes of music listening time could The effectiveness of music as reinforcement indiment in increasing spontaneous speech among these counted for perhaps the results would be altered. communication objective that could be adequately uncontrolled intervening variables could be acautistic children. The target behavior in this study was to increase spontaneous speech. This be purchased for a prescribed number of tokens. study under more controlled circumstances.

#### Footnotes

Bruning, J. L., & Kintz, B. L. Computational Handbook of Statistics. Glenview, Illinois: Scott, Foresman & Company, 1968, p. 13.

### References

Bruning, J. L., & Kintz, B. L. Computational Handbook of Statistics. Glenview, Illinois: Scott, Foresman & Company, 1968, p. 13.

Colby, K. M., & Smith, D. C. Computers in the treatment of nonspeaking autistic children. Current Psychiatric Therapies, 1971, 11, 1-17.

Euper, J. Early infantile autism. Music in Therapy. New York: The MacMillan Co., 1968, 181-190.

Ferster, C. B. Positive reinforcement and behavioral deficits of autistic children. American Journal of Orthopsychiatry, January 1962, 32, 89-98.

Hargrave, E., & Swisher, L. Modifying the verbal expression of a child with autistic behavior.

Journal of Autism and Childhood Schizophrenia,
March 1975, 5, 147-154.

Jorgenson, H. The use of a contingent music activity to modify behaviors which interfere with learning. Journal of Music Therapy, Spring 1974, 11, 41-56.

Kanner, L. Follow-up study of eleven autistic children originally reported in 1943. Journal of Autism and Childhood Schizophrenia, March 1971, 119-145.

Lovaas, O. I., Koegel, R.; Simmons, J. Q.; & Long, J. S. Some generalization and follow-up measures on autistic children in behavior therapy. Journal of Applied Behavior Analysis, Spring 1973, 6, 131-166.

Lovaas, O. I.; Scheibman, L., & Koegel, R. L. A behavior modification approach to the treatment of autistic children. Journal of Autism and Childhood Schizophrenia, March 1974, 4, 111-129.

Metz, J. R. Conditioning generalized imitation in autistic children. Journal of Experimental Child Psychology, December 1965, 2, 389-399.

National Society for Autistic Children. Could Your Child Be Autistic? Albany, New York: National Society for Autistic Children, n.d.

O'Connell, T. S. The musical life of an autistic boy. Journal of Autism and Childhood Schizophrenia, September 1974, 4, 223-229.

Prior, M. R. Psycholinguistic disabilities of autistic and retarded children. Journal of Mental Deficiency Research, March 1977, 21, 37-45

Ratusnik, C. M., & Ratusnik, D. L. A comprehensive communication approach for a ten-year-old nonverbal autistic child. American Journal of Orthopsychiatry, April 1974, 44, 396-403.

Reid, D. H., Hill, B. K., Bawers, R. J., & Montegar, C. A. The use of contingent music in teaching social skills to a nonverbal, hyperactive boy. Journal of Music Therapy, Spring 1975, 12, 2-18.

to music. Psychological Reports, October 1976, 39, 571-577. Schmidt, D. C., Franklin, R., & Edwards, J. S. Reinforcement of autistic children's responses

Sherwin, A. C. Reactions to music of autistic (schizophrenic) children. The American Journal of Psychiatry, May 1953, 109, 823-831.

Stevens, E., & Clark, F. Music therapy in the treatment of autistic children. Journal of Music Therapy, Winter 1969, 6, 98-104.

New York: Early Childhood Autism. Peramon Press, 1966. Wing, J. K.

Wolf, M. M., Giles, D. K., & Hall, R. V. Experiments with token reinforcement in a remedial classroom. Behavior Research and Therapy. February 1968, 6, 51-64.

# A STUDY OF SEVERAL METHODS OF HANDLING THE BOY'S CHANGING VOICE

### University of Missouri-St. Louis Frederick R. Willman, Ph.D.

ever, many teachers have learned to recognize these did not attempt to understand or was unaware of the changes and have developed methods of stimulation The adolescent boy has often been neglected in singing activities simply because the teacher that will keep the boy singing throughout this period of adolescence. physical and emotional changes taking place.

### Importance of the Study

from various sources found in this article will aid in the understanding of the so-called "adolescent The impact of junior high school music experience has a direct relationship to the further that the collection and summarization of material musical development of the student. It is hoped vocal problem" and thereby encourage a more thorough junior high music program.

### Indications and Characteristics of the Changing Voice

juideline in the planning of his teaching program. There are many physical changes in the boy's appearance, as well as the vocal changes which occur, that can indicate voice change to the teacher. The wise teacher will watch for these indications and characteristics and use them as a

is in the outward appearance of the boy. His body finds it awkward to handle. The body also becomes covered to a greater extent with hair. Changes in parts of the body that produce and resonate sounds One of the first indications of voice change increases in size--often to the point where he

can also be detected. The lips and nose become larger and the Adam's apple appears in the throat.

Mutation may be detected also by the change in the speaking voice. It is often characterized by an uncertainty and lack of control in pitch. A typical example is the boy who has been talking at a fairly uniform level of pitch and suddenly switches to a shrill sound. Often an attempt to avoid speaking in class on the part of the adolescent boy is an effort to cover up for this inconsistency.

Although the indications and characteristics of the changing voice overlap a great deal, there is one aspect of the voice change that is not so clearly indicated. This aspect, the range of the changing voice, must be experimented with and studied carefully in the case of each student. Most vocal music teachers today are followers of either the "alto-tenor" concept or the "cambiata" concept of ranges in the changing voice. The remainder of this section will be devoted to the discussion of these two range concepts.

### The Alto-tenor Concept

One method of describing the changing voice is known as the alto-tenor concept. It is based on the idea that as the voice matures the upper tones are cut off and the lower alto tones become broader and more like the upper tones of the tenor voice. From this stage the alto-tenor tones are gradually extended until they become more mature and full sounding. Depending upon the amount of drop in the range, the boy now becomes either a tenor or a bass.

The diagram on the following page shows the various stages of development (range-wise) out-lined in the alto-tenor concept.

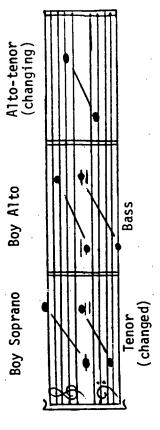


Fig. 1. The alto-tenor range development concept. 3,4

### The Cambiata Concept

The word "cambiata" was taken from the term "nota cambiata" which means changing note. It is used to describe the changing voice by giving it a name of its own rather than by borrowing a part of two other ranges. As with the alto-tenor concept, there are fairly definite range categories. However, the limits are somewhat larger and the voices are classified with a tessitura consideration in mind. The range outside the tessitura is not an especially comfortable range and would not, according to this concept, be used too infrequently.

The ranges identified with this concept are given below.

(small notes indicate tessitura)

Boy's changing voice (cambiata)

(baritone)

Fig. 2. The cambiata range development con-

### Problems of the Adolescent Boy During the Voice Change Period

describing the vocal difficulties of the adolescent boy, for often these "problems" are merely due to a Although the physiological changes that occur cause the voice to change, the accompanying psychological tendencies are to a large extent responsible for Perhaps the word problem has been overused in ack of understanding on the part of the teacher. the ease or difficulty experienced during this period of change. The biggest physical problem for boys as they undergo the voice change is the inability to "cope with unison singing outside their temporary range." and the boys are not able to sing outside this range nor are they able to sing at the extremes of the The range at this stage has become quite limited mutation occurs, the different parts of the vocal mechanism do not always develop at the same rate range for a prolonged period of time. As voice of growth. This often results in extreme piţch fluctuations that the singer cannot control.

### Self-consciousness

The boy who shoots up overnight in his growth often finds himself unable to control his body with the grace and ease to which he has been accustomed. He may feel that he is "towering over" the rest of extremely shy and avoid taking an active part in his classmates. As a result he may tend to be class activities.

masculine type. He is often afraid of being labeled On the other hand, the small boy finds himself "feminine" if he continues to sing when the bigger in an entirely different position. He feels inferior because he has not developed into a more boys have lost all interest in singing.

The adolescent also undergoes another type of change as he grows. He gains new interests, forms new friendships, and becomes much more interested

in other people. "He becomes a social being instead of an individualist." B This, too, is a part of his attempt to focus the attention of others away from himself.

### The Non-singer

music--assuming that there are other areas of music means of "escape," he will most likely grow up with an adverse feeling toward music. the music teacher's inadequacy to recognize the characteristics and indications of the voice change likely feel ashamed that he cannot do as well as his fellow students, develop a defensive attitude against music, or find other means of music expresand work with the student accordingly to keep him singing within the limitations of his ability and range. If the boy is thought of as being a "nonsinger" by the teacher or his peers, he will most available. If he is not able to use one of these The "non-singer" is usually an outgrowth of sion such as instrumental music or listening to

# Methods of Handling the Changing Voice

There have been a number of methods suggested for the handling of changing voices including that of the old English choirmasters:

The older plan of training boys' voices, as inherited from the English school of choirmasters, was to keep the boy singing soprano as long as possible and to let the voice "break." Often it broke all to pieces and never recovered.10

The methods dealt with in this chapter are those, today--those which encourage singing throughout which are generally accepted by music educators the period of vocal change.

may be traced to an earlier physiological source. Most problems that occur during the voice change are psychological in nature although they

Boys, during adolescence, are striving for a feeling of importance and have a strong desire for achievement and accomplishment. Their attitude at this point can be a crucial factor in the success of the vocal music program.

## Creating Favorable Attitudes

Several methods for creating a favorable attiglee club are suggested by Gehrkens in his toward music through the organization of a book Music in the Junior High School. boys'

- Consult the high school principal and get him to agree to back your efforts in organizing a boys' glee club.
- there is no senior club, try to find some other vocal group of men or boys and ask them Invite the senior high school boys' glee club to sing at a junior high school assembly--especially if it is a very good club. (If to sing at an assembly.)
- that have virility so that the boys may come to know that manly men sing. especially baritones and basses--and perhaps a few choral records, for use in the General Music Class. Be sure to choose compositions Buy a few records of vocal solos by men--က
- song. (Seating the boys apart from the girls--Have the boys in the junior high school music class sing by themselves (as a group) occasionally, even though it is only a unison preferably in front of them--will result in better singing on their part.) 4.
- Make friends with a few of the most popular boys in the school, ask their advice about organizing a club, and do not announce the project until they feel that the time is ripe.11 <u>ي</u>

These ideas could also be used to encourage favorable attitudes toward singing in the general music class.

26

## Achieving and Accomplishing

perience within himself as he strives to understand The desire of the student for achievement and accomplishment is important in the over all educational values. In return, music can contribute to Music needs to have sound educathe feelings of someone else or expresses his own the general educational development of the individual because the individual can undergo an exemotions through music. tional picture.

aspects of singing, from the standpoint of teaching, cations and approaches to teaching adolescent boys. It is important that the student experience a feeling of accomplishment or achievement in music. thorough understanding of the psychological impli-Music Teaching, have summarized the psychological Mursell and Glenn, in their Psychology of School In order for this to occur the teacher needs a in music education as follows:

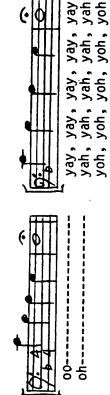
- introduction of fixed pitch levels. Otherwise must be based on expressiveness, and interest it is similar, and so modern vocal education Singing differs from speech primarily in the in expressing something, like modern speech
- The voice involves an extremely complex coordination which cannot be built up piecemeal out of its elements, but must be developed through expressive use. ;
- sive and intricate that it really involves the The nervous control of the voice is so extenentire personality, which is the true agency of song. ς,
- Thus our approach to all vocal problems should be personal rather than mechanical.
- rather than a mechanical approach. Even the 5. All the various factors on which the control of the voice depends, indicate a personal motor factors of breath control, facial

beauty rather than by direct and formal drill. looseness, and placement should be handled through interest in the creation of musical

- flexible control dictated by musical concep-Voice building, or better, voice discovery, should not aim at mechanical precision, but ٠.
- boy, the principle of personal approach is of special significance, for otherwise we may sacrifice his musical interests for the sake In dealing with the voice of the adolescent of ensemble effect, and ruin his voice. .
- music education, and has very wide educational School singing is the natural foundation of values.12 ထံ

It is generally agreed upon that the boy should sing only within his comfortable range. This range is relatively free from tension and an even quality may be developed within this range by using the entire range every day. Two vocalizes which will accomplish this when used for three or four minutes a day have been suggested by Robert M. Conrad.13

(Work upward one octave by half steps.)



Vocalizes for the changing voice,

Fig. 3.

However, as Mr. Conrad points out: "As you work the necessary to develop this range in a similar manner. unchanged voice down and the changing voice up, the As the voice becomes lower and falls into the classification of a changed voice, it is still

natural voice will develop." Therefore, he suggests this vocalize for the changed voice.  $^{14}\,$ 



mah, mah, mah, mah, moh, moh, moh, moh, may, may, may,

### 4. Vocalize for the changed voice. Fig.

viously presented briefly (from the viewpoint of range development) in the chapter dealing with the characteristics of the unchanged voice are presented voice are commonly used today. These concepts are based upon the classification and range of the un-Two general concepts of handling the changing These two concepts which were prehere in more detail as they apply to the handling and classification of the adolescent boy's voice. changed voice.

### The Alto-tenor Concept

suggest the following procedure for classifying the Harriet Nordholm and Ruth Bakewell in their book, Keys to Teaching Junior High School Music, voices:

these high voices sing either of the above songs in the key of B<sup>D</sup> to further classify them. Use a song such as "Carry Me Back to 01d Virginny" or "In the Evening by the Moonlight." Transpose it to the key of E or E<sup>D</sup> and ask the boys to sing it in unison. They will autocomfortable for them. Some boys will sing it an octave lower; have those boys drop out so matically sing it in the rang which is most that just the high voices remain; then have

A physically mature boy may be an indication a changing voice. A low speaking-voice may Other indications of of a changing voice. A also indicate a change.

siderably, (3) he is unable to sing the higher (2) his lower range is extended downward conboy's voice changing are: (1) the quality of the lower tones becomes richer and thicker, tones comfortably.

below middle C upwards an octave plus a fourth (3rd line treble staff). These upper tones do The boys who were told to drop out while the have a soprano quality, but that is still part group was singing should now sing the song in the key of E or Eb. It will be noticed that these boys have an entirely new range and quality. The range usually extends from F of the changing voice. Now organize the boys in these classifications:

First Soprano: Light quality. Range: E
 (1st line) to G (1st space above the staff).
Second Soprano: Light quality. Range: Mid-

dle C to E (4th space).

Alto: Rich, full, vibrant quality. Range A (second line below staff) to C (third space).

Alto-tenor: Rich, mellow quality. Range: F (below middle C) to B (third line).

Bass: Deep and heavy quality. Range: C
 (second space, bass clef) to middle C.

KEEP THIS VOICE TESTING MOVING RAPIDLY, 15

sing part songs in which his voice part is interesting and often contains the melody. The melody should not The alto-tenor should not be asked to sing unifourths, fifths, and scale passages. Most important of all, the voices should be retested frequently to son songs an octave lower. He should be allowed to also be rather slow moving. They should consist of be one that moves quickly. The bass parts should keep them singing in the range which is most comfortable.16

### The Cambiata Concept

This concept is primarily the work of Irvin Cooper. He suggests that the following method of

determining the cambiata voice:

- 1. Segregate the boys from the girls.
- of their voices and that you are trying to de-Explain to the boys the problem of maturation termine what is best for them.
  - Require all boys to sing "Old Folks at Home" in the key of  $B^{\mbox{\scriptsize D}}$  major.
    - Baritones will sing an octave lower than the rest
- b. Move around the group and tap the baritones on the shoulder telling them to quit sing-
- Sing through the song again, with the baritones remaining quiet. This time use the key of  $\mathbb{G}^b$ 4
- a. Once again move around and tap the boys who are singing soprano on the shoulder.
- The remainder of the male voices are cambiati.

arranged so they fit the ranges Mr. Cooper suggests. Mr. Cooper suggests singing all music in four parts. If music is used which does not correspond to the ranges listed in chapter two of this paper, the teacher should transpose the entire selection. If this is not possible, the parts should be re-

### Summary of the Study

voice by seeking answers to the following questions: (1) What are the characteristics of the changing voice? (2) What are the problems that arise during the period of the voice change? (3) What are some It was the purpose of this study to ascertain an effective means of handling the boy's changing effective means of solving these problems?

The outward appearance of the boy: growth in size, appearance of more body hair, larger lips and nose and the appearance of the Adam's apple in the throat; a lowered pitch in the speaking voice; and lack of control in the speaking voice are charac-The development teristic of the changing voice.

of the new range during this period may be described (1) the alto-tenor concept and by two concepts: (1) the (2) the cambiata concept.

The adolescent boy is confronted with problems which are both physiological and psychological in nature. Many of the psychological problems are an outgrowth of a physiological problem. The boy may be self-conscious about his inability to control his new body and voice or his lack of growth as compared to his classmates, and he usually seeks to become a part of a social group rather than retain his individuality.

The teacher should use psychology in his teachment in music. Singing needs to be done within the music and encourage the boy to succeed in achieveing so that he may understand the boy. He should work toward creating favorable attitudes toward comfortable range of the boy.

mary methods of classifying voices are in use today: (1) the alto-tenor concept and (2) the cambiata con-The teacher can achieve this by testing voices often to determine this comfotable range. Two pricept. The teacher can develop these ranges by havection or rearrange the song so that all parts are Partsinging will encourage the use of the proper range All music should be selected carefully to be sure that parts do not, the teacher should transpose the seeach part lies within the proper range. If some, better than unison singing which may require some of the students to sing outside their ranges. ing the boy use the entire range every day. within the comfortable range.

#### Footnotes

- Summy-School Music Handbook (Evanston, Ill.: Sum Birchard Publishing Company, 1955), p. 409. Peter W. Dykema and Hannah M. Cundiff, New
- Ibid., pp. 409-411. ۲:
- School (Boston: C. C. Birchard and Company, 1936), pp. 73-74. Karl W. Gehrkens, Music in the Junior High

- Dykema and Cundiff, Handbook, p. 411.
- Irvin Cooper, Letters to Pat Concerning Changing Voices in Voices in Junior High (New York: Carl Fischer, Incorporated, 1953), pp. 11, 14-25.
- Ibid., p. 5. 9
- Dykema and Cundiff, Handbook, p. 409.
- John W. Beattie, et al., Music in the Junior High School (New York: Silver Burdett Company, 1938), p. 19. α;
- Cooper, <u>Letter</u>, p. 6. 6
- Gehrkens, Junior High School, pp. 72-73. 2
- 11. Ibid., pp. 71-72.
- chology of School Music Teaching (Boston: Silver James L. Mursell and Mabelle Glenn, The Psy Burdette Company, 1938), pp. 298-299.
- Robert M. Conrad, "Developing the Boy's Changing Voice," Music Educators' Journal, 50:68, April-May 1964. 13.
- 14. Ibid.
- Paul A. Schmitt Music Company, 1953), pp. 90-101. Harriet Nordholm and Ruth V. Bakewell, Keys to Teaching Junior High School Music (Minneapolis:
- 16. Ibid.
- 17. Cooper, Letter, p. 11.

### Bibliography

#### Books

Voice Ranges and Materials published for Adoles-Eugene, Oregon: The University Ayres, Lovisa Y., and Kenneth Roduner. of Oregon, 1942. 50 pp. cent Voices.

New York: Silver Burdett Company, 1938. Beattie, John W. et al., Music in the Junior High School. 257 pp.

Cooper, Irvin. Letters to Pat Concerning Changing Voices in Junior High. New York: Carl Fischer, Incorporated, 1953. 45 pp.

New School Music Handbook. Evanston, Illinois: Summy-Birchard Publishing Company, 1955. 669 pp. Dykema, Peter W., and Hannah M. Cundiff.

Gehrkens, Karl W. Music in the Junior High School Boston: C. C. Birchard and Company, 1936.

Monsour, Sally, and Margaret Perry. A Junior High School Music Handbook, 2nd ed. Englewood Cliffs, New Jersey: Prentice-Hall, Incorporated, 1970. 135 pp.

The Psychology Silver Bur-Boston: Mursell, James L., and Mabelle Glenn. of School Music Teaching. Bodett Company, 1938. 378 pp.

Teaching Junior High School Music. Minneapolis: Nordholm, Harriet, and Ruth V. Bakewell. Keys to Paul A. Schmitt Music Company, 1953. 150 pp.

Rorke, Genevieve A. Choral Teaching at the Junior High School Level. Chicago: Hall and McCreary Company, 1947, 114 pp.

Stubbs, G. Edward. Practical Hints on Boy Choir Training. New York: E. and J. B. Young and Company, 1883. 77 pp.

Education for Teenagers. New York: Harper and Brothers Publishing Company, 1958. 466 pp. Sur, William R., and Charles F. Schuller. Music

### Periodicals

Bray, B. "Making Music Enjoyable for the Junior High Boy," <u>Music Educators Journal</u>, 42:68+, February, 1958.

Conrad, Robert M. "Developing the Boy's Changing Voice," Music Educators Journal, 50:68+, April-May, 1964.

Cooper, Irvin. "Realizing General Music Outcomes Through Singing," Music Educators Journal, 59:87+, January, 1964.

McKenzie, Duncan. "Maturing of the Adolescent Voice," Music Journal, 15:38+, October, 1957.

Redner, A. L. "Keep them Singing: Keep them Actlve in Music," Midland Schools, 70:12-13+, December, "Keep them Singing: Keep them Active

Educators Journal, 46:50+, February-March, 1960. Swanson, Frederick J. "When Voices Change," Music

THE EFFECT OF TRAINING IN INTERACTION ANALYSIS ON THE VERBAL TEACHING BEHAVIORS AND ATTITUDES OF SCHOOL INSTRUMENTAL MUSIC EDUCATION STUDENTS STUDYING CONDUCTING

Charles E. Hicks Assistant Professor University of Missouri-St. Louis Paper from research conducted at Michigan State University, 1976. Personnel in teacher training programs who work with university students are becoming increasingly aware of the need for techniques to improve teaching effectiveness. Amidon and Hough have cited three factors in helping young teachers bridge the gap between theory and practice: (1) the teacher must want to improve; (2) there must be a model of the kind of teaching behavior he or she wants to develop, and (3) the prospective teacher should receive feedback regarding his progress toward the teaching behaviors that he or she has conceptualized as a goal.

It has become evident that various college and university teacher education programs have experienced difficulties in helping students translate theory into practice; because much of what is learned in education courses is neither conceptualized, quantified nor taught in a manner that builds a bridge between theory and practice. To be understood, concepts in education must be verified by personal experiences; in turn, field experiences must be efficiently understood by the teacher in order to gain insight into the teaching-learning process.

Interaction Analysis is one technique used in teacher education to improve instructional effectiveness. Although this technique was first used as a research tool, many educators feel that it can be effectively applied to teacher training in a fashion consistent with a philosophy of personal

inquiry. This inquiry involves finding ways of experimenting with, and changing one's own behavior.

#### Rationale

Teachers have never had an empirically verified instructional theory to serve as a basis for their classroom behavior. Perceptive teachers have sensed that the quality and quantity of teacherpupil interaction is a critical dimension of effective classroom teaching. Without a theory, teachers on many occasions have been unable to generalize principles of instruction for specific classroom situations. Without objective means, veteran as well as young teachers are not able to capture the phenomenon of the instructional processes, the classroom climate and the possible effects of these on the attitudes and achievement of their pupils.

cation, music educators at the college level are forced to take a closer look at scientifically verified techniques to promote the acquisition of teach-With the advent of competency-based teacher eduing music that are essential for success as a music teacher. For musicians who are accustomed to worktheir area. Not only will they be held responsible periences, this task will not only be difficult but seem that music educators, like educators in other disciplines, will be held accountable for deciding what is to be learned regarding teaching skills in come necessary to determine competencies in teaching skills. These techniques include those of observation, measurement, and evaluation. It would for what the students are to learn, but also, who setting (where it is to be learned). It will beshould learn it, how, and in what instructional ing with abstract and intangible aesthetic exalso confusing. teacher.

### The Problem

The traditional method for teaching conducting in college music education curricula has used

37

of interaction analysis would make a significant difmethods and texts that stress the authoritarian role whether the effects of instruction in the techniques are a transference from professional performing organizations, and may not always be conducive to the involved in the learning process (rehearsal) by creating a climate for teacher-student interaction. tudes of prospective school instrumental music eduference in the verbal teaching behaviors and attimusic groups can encourage students to become more of the conductor. These attitudes and procedures best educational interest of students in school musical organizations. It is believed by many prominent music educators that teachers of school The specific problem undertaken in this study was cation students studying conducting.

tion in the techniques of interaction analysis upon the verbal teaching behaviors and attitudes of pro-The purpose of this investigation was to gather experimental teaching methods, and are consequently better able to use feedback from classroom observaand analyze data regarding the effects of instrucspective public school instrumental music teachers studying conducting. It is hypothesized that conducting students who are trained in interaction analysis becomes more indirect in their teaching tions in modifying their own teaching behaviors. styles, more flexible in their attitudes toward

### Procedures

music education and music therapy majors at Michigan State University. Fifty-two (52) students were The experiment was conducted using music education majors enrolled in Music 335 (instrumental randomly assigned to one of the two sections. Section A (N = 27) was designated the control group and section B (N = 25) was designated the experi-The experimental group was taught conducting), a required course for instrumental mental group.

Each section met five periods per week each lasting by a professor in the music education department. one hour in length.

Observation System (RIOS), the same instrument used in the training of students in section B. This system was developed by Professor Robert L. Erbes of Michigan State University. The control group (A) conducting experience of section A, group B received was added to the course requirements. The experimental group (B) used the same required text, similar teaching methods, and the same course content as section A. Instead of ten additional hours of The means of obtaining the data on the conductjected to the traditional (conventional) method of teaching conducting. The instructional mode was conducting. An additional ten hours of conducting ten hours in the theory, technique, and application of interaction analysis. Both sections were ining student's verbal behavior at the end of the experimental period was the Rehearsal Interaction studied the required conducting text and was subformed that the term's work represented a normal part of the conducting curriculum. geared to the technical and physical aspects of

behavior relative to a person's personality. It measures the openness and closedness of one's belief-Scale Form E, and the Education Scale were administered to all subjects during the first class meeting. The Dogmatism Scale was used to study verbal disbelief system. The Education Scale served as a pre-post measurement of attitude toward traditional and progressive educational practices. The experiposttest control group design described by Campbell and Stanley. A feature of the pretest-posttest tering two attitude scales. The Rokeach Dogmatism control of all eight factors joepardizing internal Group equivalency was established by adminismental design used in this study was the pretestcontrol group design is that it provides for the validity.

The treatment consisted of one hour per week in the following activities: (1) Reading and discussion of interaction theory and application;

the experimental period, each student from both sections participated in a 10-15 minute conducting and rehearsing a junior high school band. Each student's using 3, 5, and 10 minute tape segments and (4) plotverbal interaction was recorded by the researcher and (2) learning of the categories; (3) coding practice ting matrices, computing and interpreting the data During the final week of an expert in the RIOS technique. from the practice tapes.

scales were readministered to the total sample population. The data were subjected to the appropriate At the end of the ten weeks, the two attitude statistical treatment.

#### Findings

Descriptive data for the sample on the Dogmatism Scale showed no appreciable difference in either the mean and variance on the Education Scale, it groups. While some difference was noted in both central tendency or variability between the two was not found to be statistically significant

#### Table 1

Pretest Means and Standard Deviations for the Experimental and Control Groups on the Two Attitude Scales

Control		RIOS (N	RIOS Group (N=25)	NON-RIOS Group (N=27)
varianies		Mean	S.D.	Mean S.D.
Dogmatism Scale	a Je	77.160	9.551	77.551 10.493
Education Scale	ale	36.800	10.271	33.407 7.657

(posttest) for the experimental and control groups on the Dogmatism and Education Scales. A compari-Table 2 shows descriptive data of the results son with pretest scores indicates both shifts in

ticular note, perhaps, is the increase in variability on dogmatism indicate a greater degree of openmindedlater central tendency and variance values. Of paron dogmatism for both groups. The lower mean scores groups, but to a degree in the experimental group. ness evident in both the experimental and control

#### Table 2

Posttest Means and Standard Deviations for the Experimental and Control Groups on the Two Attitude Scales

-NON	S.D. Hean S.D.	11.081 72.960 11.319	8.965 31.593 7.094
RIOS Group (N=25)	Mean	69.593	33.960
Control	Varidules	Dogmatism Scale	Education Scale

groups showed a reliability coefficient reliability coefficient of r = .812 (for the average To find out how well the experimental group had viewing and coding a thirty-five minute video tape learned the techniques of interaction analysis through application of the RIOS technique, a final test was given to group B. This test consisted of variance for the twenty-five (25) subjects of the of r = .943 (between individual observers), and a of a school instrumental rehearsal. Analysis of observations). experimental

cept as applied to ratings, observations or to test the computations must be based. The rationale for scores, there is a difference in the data on which why the results do not agree completely with those While there seems to be no difference in this con-Hoyt has shown that reliability estimates can be obtained from analysis of variance components. this formula will illustrate its application and

49

purpose. This procedure is explained in an article by Ebel. 7

Table 3

An ANOVA Reliability Estimate for the RIOS Conductors on a 35 Minute Video Tape Test of Observer Agreement (N=25)

quare	33633	28550	95961	.001272	10.468372
Mean Square	20838. 333633	170.328550	4378.595961	ō.	10.4
Degrees of Freedom		588	11	24	264
Reduced Sum of Squares	20838.334	50928.236	48164.556	.031	2763.650
Source of Variation	Grand Mean		>	κ,	s

The intraclass reliability formula =

### MSV + df(A) = MS error MSV - MS error

 $\frac{4369.128}{4629.828} = 0.9435$ II  $r = \frac{4378.595 - 10.468}{4379.595 + 24 \times 10.468}$  reliability of average =  $\frac{4378.595 - 10.468}{6370 \text{ Enc}} = 0.812$ 5378.595

sions of verbal behavior and the raw data concerning the attitude scales, the raw data were summed for each of the eleven categories and the pre and To test the effect of the four selected diviposttest scores on the two attitude scales were subjected to a multivariate analysis using a

For this analysis, both subjects was eliminated from both groups by random even number of subjects. The necessary number of the experimental and control group must contain repeated measures design. selection. There were significant differences for the main maining side effects and interactions reported reeffect by groups and main effect of Dogmatism (to be expected because of dichotomization). The reveal no significant F ratios. The individual categories within the major dividirect Teacher Talk (Supportive); (3) Student Talk, and (4) Silence or Confusion. Table 4 presents tered on a composite table for tabulation and stathe data for the four selected divisions of verbal formance groups in both sections were observed in a ten minute rehearsal segment, the data were ensions were summed to give four composite scores: (1) Direct Teacher Talk (Nonsupportive); (2) Inbehavior. As the conducting students and pertistical treatment.

A Comparison of NON-RIOS Trained Conducting Students and RIOS Trained Conducting Students on the Frequency of Three Selected Divisions of Verbal Behaviors

·	Sect	Section A	Section B	n B
	NON	NON-RIOS	RI 0S	S
Verbal Behavior	Condu	Conductors (N=24)	Conductors (N=24)	tors 4)
-	×	\$.D.	×	S.D.
Teacher Talk	٠			
Supportive Behavior	8.4	2.9	6.1	2.4
(Categories 1, 2, 3)		'		
٠.	73.2		8.5 73.8	8.6
(Categories 4, 5, 6, 7, 8)				
Student Talk	6.4	2.5	3.7	8.6
(Categories 9, 10)				
ou	6.7	5.5	2.5 8.2	2.9
(Category 11) (n	not a	(not a part of the study)	the st	ndy)

An interesting and significant F ratio is noted in categories 9 and 10. Student Behavior when tested with dogmatism for unique interaction reveals a relationship between the amount of student behavior and the level of openmindedness as measured by the Rokeach Scale (F = 5.160, p .02).

The final statistical treatment of the variables in this study was the Pearson Product-Moment Correlation. While one statistically significant correlation appears between Grade Point and Dogmatism (-.36), there is no evidence of any other significant relationships among the variables.

#### Summar

The study attempted to test seventeen hypotheses. he null hypotheses rejected at confidence level of not so trained. *Null hypothesis nine* was rejected at the .0001 confidence level indicating that there level indicating there was a significant difference a difference in openmindedness between the RIOS and cause the student to be more introspective and senbringing about change in basic beliefs. Hypothesis in interaction analysis and those not receiving the .001 or better are included in this summary. Null hypothesis one was rejected at the .001 confidence the variables. There was a significant difference in the amount of direct teacher talk of conducting direct teacher talk of conducting students trained RIOS training does, in fact, between conducting students trained in interaction verbal talk. Null hypothesis two was rejected at the .0001 confidence level. The finding indicates was a significant difference in the amount of innumber eight was rejected at the .0001 confidence three test variables and the interactions between conducting students trained in the RIOS technique training. A significant difference did exist in sitive to his effect on other people, therefore student trained in the RIOS technique and those analysis and those not trained in the amount of the amount of student talk in rehearsals led by evel. A multivariate F test was performed on and those students not receiving the training, NON-RIOS conductors.

therefore null hypothesis ten was rejected. The eleventh hypothesis was rejected at the .0001 level of significance. This finding is in keeping with the last three rejections since it represents data that are summative from the last three hypotheses, that the RIOS training experience does significantly affect the verbal conducting/rehearsal behavior of the young conducting students in this study.

## Conclusions and Recommendations

The data presented in the findings of this study indicate a clear trend with respect to differences in types of verbal behavior used by students trained in interaction analysis and those not trained. On the basis of these data the conclusions are as follows:

- 1. Students trained in I.A. using the RIOS used more indirect verbal behaviors and less teacher-centered behaviors in their rehearsals.
- 2. RIOS conductors were more consistent in their behaviors by displaying a greater balance between direct and indirect verbal statements.
- 3. Conducting students trained in interaction analysis used verbal behaviors that have been found to be associated with higher pupil achievement and more positive attitudes toward school.
- 4. The Non-RIOS trained conductors spent more than 30%-40% of the rehearsal time in categories 4 and 6 combined (informing and directing).
- 5. The Non-RIOS trained conductors were found to be more direct in their teaching than the RIOS trained conductors.

These findings are consistent with other findings and the notion held by many school instrumental music teachers that instrumental music teachers can create a climate for free student-teacher verbal exchange in the rehearsal setting.

45

### Recommendations

From the analysis of the data from the study the following are suggested recommendations:

- 1. The teaching of interaction analysis techniques as part of the regular conducting requirements.
- 2. The traditional teacher training process be altered so that prospective instrumental teachers might be placed in contact with students in large group rehearsals before student teaching or during the terms in which their method course requirements are being fulfilled.
- 3. Further replication of this research be done at Michigan State University and other teacher training institutions using the RIOS system and videotapes as a training technique for public school vocal music conductors.
  - 4. A correlation study should be carried out involving various selected dimensions of verbal behavior, score reading (error detection) and interaction analysis training in order to find the possible relationship between each variable and teacher competency.
- 5. Student outcomes under conductors with varying interaction patterns should be studied.
- Similar studies should be conducted in other areas of music, such as choral, small ensembles and possibly general music.

Finally, the conclusions of this study indicate that the observable aspects of large group music instruction can be altered through training. Therefore, prospective instrumental music teachers who become aware of their verbal teaching behaviors can benefit from Interaction Analysis and thus increase teaching efficiency and, hopefully, student achievement.

### Footnotes

- Edmund Amidon and John B. Hough, eds., Interaction Analysis: Theory, Research, and Application (Reading, Mass.: Addison-Wesley Publishing Company, 1967), p. 252.
- 2. Ned A. Flanders, "Intent, Action and Feedback:
  A Preparation for Teaching," Interaction Analysis:
  Theory, Research and Application, ed. Amidon and
  Hough (Reading, Mass.: Addison-Wesley Publishing
  Company, 1967), p. 283.
- 3. Amidon and Hough, Interaction Analysis, p. 2.
- 4. Charles Leonard and Robert W. House, Foundations and Principles of Music Education, 2nd ed. (New York: McGraw-Hill Book Company, Inc., 1959), p. 230.
- 5. Ned A. Flanders and Edmund Amidon, The Role of the Teacher in the Classroom (Minneapolis: Association for Productive Teaching, Inc., 1967), pp. 72-85.
- 6. Donald T. Campbell and Julian C. Stanley, Experimental and Quasi-Experimental Designs for Research (Chicago: Rand McNally and Co., 1967), pp. 55-56.
- Robert Ebel, "Estimation of the Reliability of Ratings," Principles of Educational and Psychological Measurement, ed. by William A. Mehrens and Robert L. Ebel (Chicago, Illinois: Rand McNally Company, 1967), pp. 116-131.

FHE CHILD-CENTERED VS. THE ADULT-CENTERED RATIONALE--A DUALISTIC APPROACH TO THE USE OF PHILOSOPHY IN CURRICULUM DEVELOPMENT WITH SPECIAL APPLICATION TO MUSIC EDUCATION

Rene Boyer Cincinnati Conservatory of Music

### Introduction

There is an apparent controversy which has existed among music educators for many years concerning the basic criteria to be considered when dealing with the organization of curricula. As a result of this controversy, a certain degree of complexity in educational thought has become the norm as has been exhibited in various texts which treat the development of curricula as well as the actual curricula which have been historically developed.1

Some of the major issues which have motivated these crucial differences among educators involve the answers that have been given to the following questions:

- Who or what should be the organizing center of the curriculum?
- What are the requirements or principles of the organizing center upon which the curriculum is to be considered?
- What is the nature of the attitudes, skills, and knowledge to be learned?

Differences in the three issues outlined above can be said to have their origin in those political, social, religious, and economic trends that continuously and variously influence the said issues, and, as a corollary, whose answers can be clearly recognized as being the major factors which are subsequently reflected in not only the approach taken to the development of the various curricula, but also

in the resulting methodology and pedagogy which is used in the execution of those curricula.

As will be observed in the following paragraphs, controversy in educational discourse is that phenomenon which, in fact, undergirds the decisions taken regarding these above issues. Moreover, it is such controversy that most often causes the basic conflict in the priorities taken concerning the major aims and objectives of any educational curricula and that determines the material which is contained in it.

However, this controversy can be reduced and categorized in terms of two points of view which can be considered as the very essence from which the plethora of educational theories, used by those persons involved in the development of educational curricula, have stemmed.

questions surrounding the development of educational of the numerous theories that have come to the fore tion of contrasting a priori elements basic to the direction the development of curricula has taken in past years. These points of view will in turn This paper begins by giving a brief account of the early development of the curriculum in this proaches historically accepted as basic views that curricula as outlined in the initial paragraphs of their relationship to the two categories here pmcountry as a means of making the reader cognizant consciously or unconsciously, represent the adopstill exists in this area of education. We shall in an attempt to provide a solution to the basic this study. Such background will serve to bring be related to two of the major philosophical apabove, since we believe that they, whether taken have been utilized in the development of various oosed. Finally, we shall look at this system as it concerns the specific area of music education then present the two points of view referred to into focus the controversy that has existed and educational curricula in order that we may see and its supporting curricular ideologies and

51

to by several writers as the child-centered and the be to facilitate the task of the educator by providing him with a theoretical approach for disentangling adult-centered rationale for curriculum development. Such terminology will be employed throughout the rethe host of philosophical theories--a task which is mainder of this paper in which our primary aim will These viewpoints have in passing been referred necessary if the curriculum is to be cogently and successfully constructed.

# Historic View of Curriculum Development

nineteenth and early twentieth century, the curriculum was thought of and written of as a fairly static solution to the needs of social systems. Since the As a result, tional problem of a given society. The concept of the curriculum as a constant and perfectable inbe worked out as a definite solution to the educadustrial revolution that occurred during the late we note here that status rather than change dominated educational philosophy and practice, a con-Until the time of the historic social and inchange, the curriculum could, without difficulty, dition<sub>3</sub>which is quite the reverse in our present times. social systems were subject to relatively slow strument was accepted and acceptable.

The revolutionary changes that took place in the latter part of the nineteenth and the first part of to use as the primary basis for the establishment of schools and school systems, the already existing sense that form and content were continually changthe twentieth century however, were so violent and existed prior to this time considered change as a henceforth became a constant in societies in the sudden that they evoked not only a change in the tional leaders and advocates of the system as it negative factor and, as a consequence, proceeded basic social institutions and processes--notably ing to some extent. Nevertheless, those educamethods of manufacturing goods but also in the the school and the church. Educational change

philosophical thinking along with the regularization of current curricula and the perfection and spread of traditional practices of teaching.

riculum, for example, which was based on the simplest usefulness of the traditional elementary school curelements of moral training and literacy skills--the dustrialized and urbanized society, seriously chal-The twentieth century, on the other hand, with to be questioned by many people. Even more vigorthe turbulent changes brought on by the newly in-3 R's as they were so commonly referred to--began ously criticized was the college-preparatory curlenged the validity of the school curriculum. riculum of the secondary school.

nents of the Progressive Education Movement, a movepsychology and educational philosophy in the early decades of the twentieth century had a definite imand the classroom as well as on educational objectives and curriculum patterns. The result of these quent to World War I and led to what was considered to be the initiation of a more rational approach in ment which came into focus during the years subsepact on the processes that obtained in the school curricula. This formed one of the several compodevelopments was the widespread modernization of educational planning and curriculum development. Moreover, the development of experimental

Cremin comments about the initial stages of this movement when he states that:

of a vast humanitarian effort to apply the promise of American life . . . to the puzzling new urbanindustrialized civilization that came into being Progressivism writ large. In effect, progressive a many-sided effort to use the schools to improve the lives of individuals. Actually progressive education began as a part education began as progressivism in education: The word Progressive provides the clue to what really was: the educational phase of American in the latter half of the nineteenth century.

It is to this point that we wish to address our discussion since it was to the philosophy of this particular movement that we have credited many of the various contemporary ideologies which are currently held in regard to the development not only of the general educational curricula, but of music educational curricula as well.

A more detailed explication of the constituent elements of the Progressive Education Movement is provided in the statement by Schaeffer who outlines certain of its salient characteristics as follows:

(1) that education must take into account the developmental needs of children, (2) that learning cannot be externally imposed but must involve activity of the mind of the learner, (3) that knowledge is gained through participation in activities of social life, (4) that education must take into account the needs of society, (5) that the curriculum and the teacher must take account of individual differences in the learners, and (6) that curricular decisions may be improved by the application of the scientific method.

felt needs of the child, or whether he should follow These factors which have been outlined by Schaefadministrators, teachers, and curriculum developers. terest in the developmental needs of the child. It values that were subsequently adopted by educators, emphasis on all else save the consideration of the the more progressive views that emphasize that the curriculum development and as such which paved the tion Movement, but also serves as a factor in eduis this aspect which not only characterizes the major focal point of the entire Progressive Educafer can be thought of as comprising that approach to education which is characterized by a keen in-As a result, such a schism becomes a crucial concern to the educator when deciding whether or not he should adhere to the more traditional ideology cation which provided an alternative approach to way for the apparent schism in the attitudes and of education which seemingly places its major

developmental needs of the child be given priority in the construction of the curriculum and its accompanying principles, guidelines, aims and objectives. In the following pages we shall discuss this apparent schism in terms of the two approaches that were mentioned earlier in this article--child versus adult-centered rationale.

### Adult-Centered Rationale

The adult-centered rationale is based on the conviction that, if the child is to develop into a civilized human being and a useful citizen, he must first be disciplined by means of methods and materials selected with reference to the standards of adult society rather than the felt needs or interests of children.7

As a corollary of the above, an adult-centered curriculum would focus upon enabling the child to acquire the needed tools to participate in the already established society and with providing the means for the child to become familiar with the greatest ideas and objects that man had created. The major objective of one who has developed this rationale, is that the child must become that type of adult desired by society and in order to do this, he should acquire the outlooks, knowledges, and skills needed to exhibit these qualities.

William T. Harris, one of the first American educators and philosophers, concluded that "the school is an agent for preserving inherited values and adjusting man to society." According to Harris and subsequent advocates of this particular type of program, in order to accomplish the desired objectives, the curriculum should consist of logically organized subject matter, selected by adults. One of the major functions of the school is to transmit impartially and objectively this verified knowledge regardless of whether the subject matter offered is of immediate value to the student or not; for knowledge, if properly stored, will inevitably be retrieved for subsequent usage. In short, future goals are expected to supercede present needs.

contains what the student should learn and emphasizes even further, what he must learn. The sub-Therefore, the primary content of any curriculum

sequence of solid subjects which are relatively unchanging and do not depend, to any great extent on a changing society. If we observe the Colonial ject matter content is based upon the logical

religious subject matter received primary attention when considering the program of study. It period in our history for example, we find that was important that the child be given an educa-

he would someday serve as an important part. Consequently, when viewing an early colonial curricuthat desirable by the particular society in which tion that would mold his entire character into

arithmetic. The main objective in education was lum, emphasis is placed on reading, writing and to prepare the individual, through a process of

look, and values were molded by the doctrinal stipulations of that Book.

familiarization with the content of the Bible, to

become that kind of citizen whose character, out-

If examined historically, the adult-centered rationale behind curriculum development becomes evident in the beliefs concerning man's nature, which are discussed by the two dominant tradi-

tional philosophies, Platonism and Aristotelian-ism. <sup>10</sup> These two philosophies posited the con-cept of man's dual nature by considering that man is composed of body and soul or mind. The mind, according to these philosophies, is the knowing

governing function, in spite of the Greek and Roman notion of mens sana in corporo sano. <sup>11</sup> The grasp of this belief is essential for understanding aspect of man's nature and is thus superior to body (matter), both as to its nature and its

classical education as well as current educational conservatism which, in essence, are both based on an adult-centered rationale for the construction of its curriculum.

"academic subjects" are worthy of the name educamanual skills, crafts, and vocational preparation tion; any activities involving the body--such as This view asserts that only

of the mind designed to develop the rational part Only activities of the person are the most truly educative.12 are not education but training.

which appears important to the examination of the origin of the adult-centered rationale for the development of curriculum, involves the fallen nature of man. The view that man is a very im-portant being played a major role in the school's often choose evil rather than good.13 One of the attitude toward pupil behavior. Obviously, as a allowed to do just as he pleased, since he would chief supporting statements for this perspective Another belief espoused by some conservatives result of this thinking, the child would not be of curriculum development is advanced by Horne who wrote:

immature, dependent, and plastic members of the race . . . Ideals are the norms for all human experience, including that of children.  $^{14}$ for children and the race rather than in chil-It is better to center education in ideals dren themselves. After all, children are

presented in a logical sequence, may not seem relevant until the individual has matured to adulthood. to curriculum construction and provides the cornerclusively, one of "absorbing" knowledge to the limit of one's capacity. In this way, learning is designed to give structure to what formerly was in chaos. The ever-increasing acquisition of this conservative type of curriculum, the major goal is The process We might conclude that under a traditionally the development of an individual who can adapt to the idealistic society by way of being programmed However, this method of approaching the education of those who espouse the adult centered rationale of the child, forms, in effect, the major premise concrete, solid, and unchanging subject matter, of learning has been primarily, though not exstone of their philosophical objectives. through the aforementioned processes.

### Child-Centered Rationale

The advocates of this group take an almost diafrom the adult-centered perspective in that it seeks holds, in effect, that the primary purpose of education in a democracy, they argue, is the development of the individual. There appears to be at least two significant variants to this theory. The first tion is that of preparing the individual to achieve as the "child centered school." It holds that education, in both purpose and content, must be based on individual needs, capacities, and interests primetrically opposed view towards the formulation of curriculum ideals. The ultimate purpose of educamaximum social and economic success. This differs individuals to rise above the social and economic status in which they would undoubtedly remain if vidualistic conception of democracy and therefore is that variant which is most commonly considered to utilize public education as a means of aiding guided by an adult or society-centered program. The second point of view is rooted in the indimarily in terms of economic and social success.

Children are not considered as small over, this group contends, that, while these capacities, needs, and interests exist among children at various levels of maturation, it is true that every but persons in their own right. As such they have capacities, needs, interests, and purposes of their own, which can be ignored only at the risk of retarding the development of intelligent and healthy as adults vary widely in their interests, abilities and temperaments. To insist that every child purpersonalities. Hence, the educator must realize and recognize that the needs and capacities of education built upon adult purposes and interests child is in some sense unique. Children, as well and immature adults as earlier implied by Horne, sue the same educational program is committing a The proponents of this school argue that an crucial error in the development of that childchildren are different from those of adults. is inadequate.

Accordingly, the child-centered educator argues that the curriculum can not be derived

of individual differences. Learning properly underthe normal processes of maturation and to the facts solely from the demands and requirements of a relabased on the present capacities, interests, and needs of the learner. The demands and requirements of society must naturally be taken into account and tively unchanging society without doing damage to the educator must never forget that his primary duty is to help the child as a member of society, at any stage of development, in order that his people's learning but progressive growth in the intelligent direction of purposeful activities. The heart of the curriculum should therefore concapacities and abilities may reach their fullest potential.15 stood, is not a mastery of the product of other sist of a wide variety of purposeful activities

the main contribution that the schools should make is to see that the child is not "spoiled" by formal education. 17 The educator should view the beginrationale. A definite movement towards the childcentered rationale is said to have begun with Jean Jacques Rousseau (1712-1778), who was among the first to advocate that consideration be given to the imperfection of man, and the need for the contherefore man is by nature good. Hence, according to Rousseau, in the early development of a child, trol of the activities of the child, Rousseau emphasized that, "God makes all things good,"16 ning stages of education in terms of experience-the nature of the child. In opposition to the conservative view of the fallen nature of man, A brief background of the child-centered the means by which a child may best learn.

also instrumental in fostering development of the consisted of guiding children into a natural and orderly unfolding of their innate capacities. Not only did he believe in the adaptation of teaching materials to the child's ability level, child centered movement. He felt that education Johann Heinrich Pestolozzi (1746-1827) was but also in the adjustments of pedagogy to fit the ability and maturity of the student.

been recognized as the "Father of Progressive Education." 18 The purpose of education, according to Dewey, was growth. The inquiring and reflective Perhaps the most important contributor to the child-centered movement is John Dewey. Dewey has concepts associated with John Dewey which concern and no fixed habits or values were to be allowed to hinder this growth. In summary, the salient mind were the goals of his educational program, us here are:

- 1. The school curriculum should emphasize activities that cause children to work with "hand and brain."
- individuals, and all individuals are of value. The democratic way of life is the best way, for it allows for the full development of all
- with the same sources to stimulate and interest the youngsters.  $\overset{\circ}{19}$ The school should become a miniature community ო
- The scientific method should be a basic concept in curriculum construction. 4.
- 5. Truth is flexible.

Dewey further states in support of his concepts concerning the growth of the child that: Growing is not something which is complete in odd moments; it is a continuous leading into the supplies conditions that utilize adequately the future. If the environment in school and out, present capacities of the immature, the future which grows out of the present is surely taken care of.20

## The Philosophy of Pragmatism

We shall continue our discussion by treating following characteristics of the Progressive Edufocus on experience-centered type curricula and cation ideology. Like the movement, it had its which parallels in its educational aspects the Pragmatism, an essentially American philosophy

workable in action. In other words, it is said that a pragmatist in education is one who believes primarily in "learning by doing." its doctrine holds, in essence, that a statement can be found true only when and as it is found broke away, at least theoretically if not pracof Pragmatism is substantiated by the fact that authoritative type of methodology. The choice tically, from the traditionally-Europeanized-

not allow for an in-depth examination or explanatheir positions toward this particular philosophy have not necessarily been in total agreement with one another, the writer wishes to point out that Although the scholars who have been firm in tion of every position which has been held, past at one time or another in their careers, adhered proceed by outlining certain germane ideas which clearly understood if we first clarify the pragthe general scope of this particular paper does and present, by the numerous educators who have gently, or in other words, a more sophisticated means of asking: What is meant by "learning by doing?" McMurray explicated his views on this are common to those educators who are advocates matic opinion on what it means to act intellito the pragmatic doctrine. We, however, shall of this theory. Their unanimity can be more matter when he outlined:

liberately, with awareness of justified intent; (b) to act in the light of consequences foreseen; sires in their effect upon conduct by considera-(c) to control one's immediate feelings and de-To act intelligently is: (a) to act detion of longer range desires and goals. $^{21}$ 

is a theory about human action as guided by cognition of consequences, a theory of deliberate or ra-From this it can be concluded that pragmatism tional self-control, of intellectually achieved continuity in behavior. The writer however wishes to add to this definition that, the very essence of pragmatism, as developed and envisioned by such pioneers as Pierce, James, and Dewey, lies in the

concept that ideas are instruments for change and that if an idea does not bring about some kind of change, whether it be in the mind of the person or society in general, then that idea is not an idea worthy of consideration and in fact should not be thought of as an idea at all.

restructing, and transforming of experiences that is essential to the pragmatic concept of growth and development. Regarding the first of these--It is moreover the continual reorganizing, the aspect of organization--James wrote:

scribed than by calling it the organization of acquired habits of conduct and the tendencies to behavior.22 Education, in short, cannot be better de-

Dewey reinforces this idea when he states:

We thus, research a technical definition of It is that reconstruction or reorganization of experience which adds to the meaning of experience, and which increases ability to direct the course of subsequent experience.23 education.

proach is emphasized by Don Chen-Chu when he writes: toward the concern for growth in education is quite similar to those views held by those educators who propose that the child be the focal point of the curriculum. The relationship between the prag-Hence, it can be seen that the pragmatic view held matist's point of view and the child-centered ap-

Pragmatists are united in the conviction that Physical, mental, social, moral, and spiritual elements are all important, and each should be fully developed.24 child should be nurtured and should grow syseach child is a unique being and each unique being is born with multi-potentiality. Each tematically in all aspects to the maximum.

above quotation forms the major focus of the child-Even though the emphasis placed on developing the child as a whole, as evidenced by the centered approach, pragmatists also give much

part. About this relationship between the child attention to the society of which that child is and the society Dewey writes: the child's powers at work along the same general constructive lines as those which have brought civilization into being.<sup>25</sup>

grounded in the needs and the interests of a child's life, a concept to which additional weight is given Thus it can be said that a pragmatic curriculum is by Kilpatrick who poses the rhetorical question:

dents so far as the school accepts responsibility for its quality. We are thus back again to living and its quality.  $^{26}$ How shall we understand the term curriculum? It is the whole living of the pupils or stuHe further comments, "I would have the school start are evident in Kilpatrick's program which he called the "emerging curriculum." There he carefully outlined the pragmatic ideas concerning curriculum as with its children wherever they are and help them first, to get the wholesome and vigorous living under way."27 The results of these observations follows:

times, in season and out, (1) to raise as best it could the quality of living at each age level; (2) to make this actual living grow up into all-round living . . . (3) to develop the creative aspects of living as the finest single test of success. 28

Now that we have clarified the concept of a child-centered curriculum through reference to the curriculum is any experience that is educative and shall continue by pointing out that the child's personal experience is also of great significance to the school program. As initially stated, the observations of the pragmatists cited above, we in which the best subject matter is genetically experience of the learner. The real essence of and vitally derived from and integrated in the

curriculum, according to Dewey, is that of "moving from the child's present experience out into that represented by the organized bodies of truth that we call studies." Regarding the utmost significance of experience, Dewey stated that:

The positive principle is maintained when the young begin with active occupations having a social origin and use, and proceed to a scientific insight in the materials and laws involved, through assimilating into their more direct experiences the ideas and facts communicated by other who have had larger experiences.<sup>29</sup>

The role of experience in the pragmatic curriculum. Having established the important concern for experience as a necessary component to the pragmatically based curriculum, we are now ready to ask the question? What kind of life experiences of the child are considered most essential? Pragmatists state definitely that it is the "social" experience, a central element of the curriculum, Dewey comments that: "The subject matter of education consists primarily of the meanings which supply content to existing social life. The continuity of social life implies that many of these meanings are contributed to present activity by past collective experience." 30 In order to better understand Dewey's ideas on social life and curriculum, we should note that, ". . . the social life of the child is the basis of concentration, or correlation, in all his training or growth. The social life gives the unconscious unity and the background of all efforts and of all his at-

Taking into consideration the fact that pragmatists, being truly "practical" in their outlooks toward life in general, tend to build their curriculum admittedly on the every day needs of the students in the society, we shall therefore discuss their support of the utilitarian curriculum. According to the pragmatists the basic question that must be answered practically when dealing

with a curriculum of this nature is: Does it help the student live more successfully, adjust more adequately to the demands of life?"32 Furthermore, a pragmatic curriculum is used for problem solving. What the pragmatists ask of the curriculum is that new techniques for new life problems be developed. All subject matter therefore should provide the teacher with opportunities for training the pupil in scientific thinking for problem solving. Thus, the curriculum that is made up in advance is not considered a curriculum, but rather a mere course of study or suggestions of things that might be studied. The real curriculum is what knowledge the children use to solve problems; it is a curriculum in action. Information becomes knowledge when it is used to solve problems.

For a clearer understanding to the utilitarian or pragmatic curriculum, we should note that pragmatists start work from things that are meaningful to the child. They look beyond the immediate and concrete. As McMurry wrote:

from an early interest in solving problems of an immediate, localized and concrete sort to a more mature interest in solving problems which arise through intellectual curiosity and a desire for abstract knowledge.33

Lastly, the pragmatic curriculum is experimental. In criticizing the static curriculum Dewey wrote:

Learning here means the acquisition of what already is incorporated in books and in the heads of the elders. Moreover it is that which is taught as a finished product, with little regard either to the ways in which it was originally built up or to changes that will surely follow in the future. It is to a large extent the cultural product of societies that assumed the future would be much like the past, and yet it is used as educational food in a society where change is the rule, not the exception.34

62

above, avoid in curriculum construction, the rigid The pragmatists would therefore, according to stead would propose a changing curriculum, because the criticism of a static curriculum as expressed standards and preconceived solutions. They insociety continually faces new cultural, social, requirements, inflexible boundaries, mechanical vocational, and psychological needs.

the development of the whole child, but, more imcategory which we have defined as child-centered. The emphasis placed on developing the child as a whole, which forms the major focus of the childcepts of education outlined by some of the major portantly, seek to incorporate experience as one centered approach is clearly evident in the conapproach to education and hence its view of cur-Conclusion. It should therefore be evident from the above discussion that the pragmatist's riculum construction falls squarely within the pragmatists. They not only stress focusing on of the prime means of insuring that growth.

dividuality, but also to help the child to analyze that are inductively as well as deductively drawn. conceptualize and base his actions on conclusions for measuring individual needs and interests primarily in terms of economic success, so the pragchild should be developed in terms of his ability to act and think, regardless of the situation in and comprehend future life needs. In short, the matists consider that education should serve the needs of the learner and strive to cultivate inits educational purposes as being to insure the It should attempt, not only to meet the present present development of the child without regard present life by cultivating the whole organism. Just as the child-centered approach views which he finds himself. He should be able to

### Essentialism

Essentialism, a theory which follows many of centered, traditional-type of curriculum, is the the ideas held by the advocates of the adult-

this work, we made mention of the fact that although the Progressive Education Movement brought with it we have observed, propose a more experience-centered kind of education. In the first part of philosophy that has been chosen to represent the scholars, teachers, and educators who refused to opposing view to that of the Pragmatists, who as many new and innovative ideas, there were those change their current mode of doing things.

adaptation to an increasingly complex, industrialized, and urbanized society--it had become overshadowed by as Essentialists, and it is their views that provided the basic philosophical theory for this moveever, that Essentialism had been extremely influen-Public education in the disquieted period following the Depression, it was revived under the leadership faction regarding the quality and goals of American World War II. This move resulted in the establishment of the Council for Basic Education. 35 cogent theory, it has continued to have notable rethe following paragraphs. It should be noted how-Horme who were instrumental in the organization of tion and curriculum development can be classified ment which we shall examine in greater detail in American education was in need of revitalizationsurgences in recent decades. For example, during to counteract the undefined feelings of dissatismore progressive ideologies. Nevertheless, as a tial in the practices of many schools during the traditional and time-tested approaches to educafirst quarter of the twentieth century, but due another thrust to the fore when it was advanced Education in 1938. Essentialism was also given the Essentials Committee for the Advancement of That group of scholars who adhered to the of such men as William C. Bagley and Herman H. to a lack of innovative ideas at a time when

first Sputnik in 1957, the need for reducing what such as Arthur Bestor, H. G. Rickover, and Jacque appeared to be an obvious deficiency in American Essentialist philosophy by outstanding advocates education sparked the outspoken support for the With the launching by the Russians of the

return to fundamentals in both high school and the higher grades of the elementary schools."36 for the need to revitalize the existing system of education when he said: "I should like to see a States, Dwight D. Eisenhower, voiced his concern Even the then President of the United arzun.

Frank E. Armbruster, in the article entitled, "Math Lesson: Money Won't Buy Brains," which appeared in the Wednesday, September 7, 1977 issue of the St. Louis Post Dispatch, comments on the appalling decrease in quality of education as can be evidenced Today, the dissatisfaction with the direction, complains about those who would be iconoclastic in by the rapidly falling rates of literacy and lack of competence in the basic areas of learning. He the practices, and the results of contemporary American Education continues to be expressed. their views on education when he writes:

yielded to them the responsibility of determin-. . . many teachers began to treat children as if they were little adults and had the exing when, if and--within a disturbingly questionable range--even what they would study. perience and judgement of grown-ups; they

problems as unique and invulnerable to any past child"--and alongside such an objective, teachproblems could seem insignificant, as well as demanding, difficult and dull.  $^{37}$ approaches to solution. Many attacked everything from homework and rote learning to curacademic disciplines. As in the late 1940's The innovators tended to see the current ing children to read, write and solve math riculums (sic) that included the standard they again were out to "educate the whole

He then, as a true essentialist, defends the methodyears ago when he calls for a return to the basics. ology of those educators and teachers of twenty In the second part of his article he writes:

be "old-fashioned," as perhaps is the idea that classroom essentially must have an orderly, These teaching methods are often thought to

well-structured, though by no means unhappy, envi ronment.

these methods, but until other proved techniques ones we have, and, at least in the lower grades, are developed, they are the only tried and true most current teaching staffs have the general Many "innovative" educators may object to knowledge necessary to carry them out . . .

three-quarters of a trillion tax dollars ago. This is certainly a bitter pill for us to swallow, but with the welfare of a generation of youngsters at stake, we may have no other choice.38 It is true that, in many ways, this means returning to a system we had about 20 years and

tialist is primarily concerned with making the child basic principles, aims, and objectives of those who competent in mind, body, and spirit through the cultivation of his intellect, the refinement of his taste, and the development of his moral character. We should ask ourselves however, what are the They assert that the mastery of the "fundamentals" is imperative to the achievement of that quality of intellect, taste, and personality to which they the implementation of an adult-centered curriculum. and charitable enterprise where focus is placed on It can be generally said that the American Essenallude. Consequently, Essentialists require that the school give priority to "solid learning" instead of acting as centers for civic development espouse the essentialist's concept of education. stress the need to turn to the teaching of what they consider the essentials, or in other words the child's whims and fancies. In brief, they

basic virtues, ideals, habits, facts, and especially tellectual work ethic. The essentialists are fixed, common core of culture. These essentials are guides and attitudes (e.g., industry, thrift) which have traditionally been thought of as the American, inplace; they are recognized as indispensible to the This leads us to inquire into the nature of these essentials. They can be considered as the basic knowledge, skills (e.g., spelling, writing) constant, and relatively independent of time and

both for the success of the individual and the security of the human race and the state. The essentialists believe that it is these fundamentals which can be identified and that they should be taught systematically and efficiently to all students regardless of their place in society or their intellectual potentials.

The criteria used in determining the specific elements to be included in the curricular experience of the learner is based on those which have been proven effective in the past. The essentialists contend that the tried and tested knowledge and skills of people of other times have great authority, and that it is these which should be trusted. As John Ciardi stated: "The first course in any science is essentially a history course. You begin by learning what the past has learned for you. Except as a man entered the past of the race he has no function in civilization." 39 According to the reasoning of Essentialists therefore, traditions must be valued, not only because they are old, but because they are true and good. It is for this reason that they have been frequently referred to as the "educational conservationists."

School and the transmission and preservation of the essentials. According to essentialist philosophy, the diverse institutions within the society exist for the purpose of accomplishing different ends: for example, the home, the church, and the adult community carry great responsibility for the moral education of the young. Hence, they should not pervert the purpose of the school by using it to propagate opinion in preference to verified to propagate opinion in preference to verified experiences of the race. They assert that it is experiences of the race. They assert that it is imperative to equip man with the exact knowledge and skills which will enable him to compete with nature in the battle for survival, and this is only possible if the central and the dedicated function of schools--to transmit impartially and

objectively the accumulated verified knowledge--is properly carried out. The greater his comprehension of this knowledge, the more his power will
be increased. In essence, the essentialists are
saying, let the schools do what schools are supposed to do, i.e., the intellectual preparation of
the child for adulthood and leave to other institutions those elements of the child's upbringing
which, while important, are not really within the
domain of the school.

In addition to the above, Essentialists see the transmission of knowledge and skill as an attempt to conserve rather than to reform the basic content and structure of the curriculum. They see the task of every school as helping the oncoming generation to acquire as much as possible of that cultural heritage which has withstood the test of time. To achieve this, it would be necessary for schools to eliminate the "non-essential, non-external elements" not valued in the past.

### Conclusion

The essentialists have claimed that the Propressive Movement was misguided since it failed to provide the child with a secure linkage to a body of proven truth and historical tradition. They consider informal education supplementary, incidental, inefficient, and even at times unnecessary. They also regard "training" for specific jobs, especially jobs involving manual skills, as being outside the domain of the school. This is where such critics as James B. Conant and the pure essentialists tend to disagree, inasmuch as Conant espoused the concept of the comprehensive high school which would put intellectual and humanistic studies on par with practical preparation for trades. Moreover, Essentialists believe in learning the exact and logically organized content of a curriculum, as well as in high scholastic achievement measured by rigorous standards. They are in accord with the adult-centered curriculum when they advocate that future goals supercede present needs.

( )

100

In other words, for the student to be able to reach future goals in life and work, a strenuous effort in what they consider to be the essential cognitive in preparatory stages, individualism or "felt oneeds" on the part of the child must be sacrificed for the sake of developing a thorough background is perforce needed. While interested in the detivity, they nevertheless assert that especially velopment of intellectual originality and creaaspects of traditional education.

it can still be said that the essentialists' educational postulates, their ideas regarding the reality, truth, and values, all have had deep im-In spite of the innovative trends that have influenced American education in recent decades, pacts upon curriculum, methodology, and adminisfunction of the school, and their concepts of tration.

Every course however, must consist of the essentials which must be taught, even though their significance principles outlined above, the student should learn and needs to learn. Deference should not be given lection of courses previously assembled, but rather is not evident in the fulfillment of some immediate A consideration of the essentialists' view of must contain those elements which, according to the the Essentialist sees the curriculum, not as a colas a logical sequence of solid subjects of studies. need. If the essentials learned are not useful in to what they would like to learn. In other words, the present, they will be stored until the approthe curriculum would therefore indicate that it priate occasion arises for their usage.

Furtherwould be treated can, in essence, be considered as extensions and/or variants of the ones previously expounded on. If we then take a synoptic view of the remaining philosophies, for example, The scope of this study does not allow for the treatment of philosophical concepts beyond the major ones already elaborated upon. Furthe elaboration since a large number of those that more it seems unnecessary to attempt such an

Perenialism, Reconstructionism, Idealism, and Reallow, can be viewed as summarizing the main features of six philosophies of education and its subsequent strate that the philosophies there represented can cussed and as a result can be classified under one This goes hand in hand with the statement advanced The facility of classification can be exemplified if we refer to the chart taken from Table 2-1 of Tanner and Tanner's book, Curriculum Development Theory and Practice. 40 This chart, as shown beusage in the development of educational curricula. be construed as variants of the ones we have disclassifiable according to the dualistic criteria ism, it will be discovered that they are readily which we have developed earlier--at least as far If we add two new columns -- basic philosophy, and Our classification--to this chart, we can demonof our two categories, adult or child-centered. as the educational implications are concerned. by Monroe in his Philosophy of Education that:

different educational methods for making these ideals prevail.41  $\,$ that different philosophies exist because men but will make explicit the different concep-While different philosophies of education corollaries of divergent pure philosophies, held by different persons. It will be seen tions of the value and aims of actual life will still exist they will not be so many have in mind different ideals in life and

of music education. We shall provide a brief examiof a dual concept of an approach to curriculum conportant to point out that the philosophies of music struction, along with two philosophies which, in their educational ramifications, can be thought of influenced the shape of its curriculum. It is imas being representative of that dual concept, we shall now turn our attention to the specific area Now that we have completed the presentation nation of its historical development in terms of education have been influenced in large measure, the kinds of philosophical approaches that have

2

Phi losophy	Controlling Aim	Curriculum	Method	Ideal of Learner
Perennialism (Essentialism)* Adult	Cultivation of the rational powers; academic excellence.	Liberal arts, Great Books.	Mental disci- pline; literary analysis.	Rational being guided by first principles; mind elevated above biological universe.
Experimentalism (Pragmatism)* Child	Reflective think- ing for social problem solving; democratic citi- zenship; growth.	Comprehensive, unified, problem- focused studies, in democratic classroom setting.	Social problem solving through reflective think-ing and democartic processes.	Autonomously thinking socially responsible democratic citizen; organism in biological continuity with nature.
Reconstruc- tionism (Essentialism)* Adult	Building an ideal democratic social order (a practi-cal Utopia).	Social problems, corrective programs scientifically determined for collective action.	Critical analysis of social flaws and programmatic needs for corrective action.	Rebel committed to and involved in constructive social redirection and renewal.
Romantic Naturalism (Pragmatism)* Child	Individual freedom to developone's potentials	Learning activities based upon child's felt needs.	Laissez faire; free learning environment for artistic self- expression.	Unfolding flower
Existentialism (Pragmatism)* Child	Inner search for meaning of one's own existence.	Themes on the human condition; learning activities, free of rational constraints, designed to free the individual to find his own being.	Introspection (examining one's own feelings, impulses, thoughts) in a free learning environment.	Flower in search of meaning of its own existence

\*The classification according to the two basic philosophies that we have used (essentialism and

÷

not only by the various philosophical attitudes held in the particular society at large at a specific time, but also by the social, cultural, and economic factors foreign to the nature of music itself. The result is that there is a close link between the general philosophies and those of music education. These factors are important in viewing the development of this area which we shall proceed to give, restricting it to a consideration of this phenomenon in the United States since the middle of the nineteenth century.

#### <u>History of American</u> <u>Music Education</u>

When music was first officially introduced as a part of the Boston Public elementary school program in 1838 by Lowell Mason, mental, moral, and physical discipline were the aims of the course of study. It can be said that these objectives were based on an adult-centered rationale, since the factors that were stressed had the functional aim of ameliorating the general state of musical illiteracy that obtained at that period. Emphasis was placed on music reading with the sacred and secular forms used reflecting those compositions and composers that were held to be of lasting cultural value. This continued during the latter years of the nineteenth century but soon met with the opposition of several music educators who contended that since music was designed to be heard, reading was an unnecessary as well as artificial aid to the common student of this art form.

During the last decade of the nineteenth century, the pedagogy of Herbart (a German educator), which involved the child-study movement, began to exert distinct and complimentary influences on American music education. Accompanied by an interest in perfecting teaching techniques, there was a concomitant concern for developing high mental acceptance spiritually rather than methodologically. This was in essence, the beginnings of a

sion would evolve. Such an approach was the result of the democratic concept of education and life became the direct outcome of the child's interests. The Progressive movement implied by these beginfor social efficacy and established a framework in tunity for social, constructive, expressional, and which held that every child should have the opporhence, child-oriented philosophies of James, Kilwhich natural means of pupil activity and exprestivity or the absorption of chosen data, emphasis creative development. Rather than stress recepshift towards a child-centered approach to music education, in which the choice of subject matter As Leonhard and House succinctly state regarding patrick, and Dewey, which reflected new concerns was placed on activity in the learning process. this new development, its proponents held that: nings was crystallized in the Pragmatists and

activity developing from the felt needs of the . . . education cannot be a process of factual assimilation, but of investigation and

the subject. Thus, Progressivism in music education by the Progressive education movement which had its greatest impact between 1918 and 1938, with a model which reflected a concern for the child rather than can be seen to have based much of its innovation on psychological evidence regarding motivation, learn-The child was no longer measured only from an adult perspective--in terms of what he might be and do as The pragmatists' approach was further strengthened a contributing member of a democratic society, but also from the purely child-oriented perspective in terms of his maximum ability for total musical deing, and individual differences and capacities. velopment.

inclusion of their specialty in the curriculum. As early as 1930, James Mursell had already provided school curricula began to undergo a period of reform Since the second half of this century, public and a corollary of this was that music educators were faced with the task of having to justify the

"modern" music educators with some rationales for tablished four principles to justify his position education. As Carroll Gonzo points out, he esvalidating the inclusion of a program in music as a tenable one. He held:

education; and fourth, that the acquisition of knowledge about music has a proper place in music education.43 experience; third, that the development of tech-First, that the music program is an organized that it is an organized opportunity for social opportunity for aesthetic experience; second, nical mastery has a necessary place in music

rary approaches to music curricula, many of which can be thought of as being "Gestalt" and consequently child-oriented in their perspective on the construc-The principles that characterize Mursell's philosophy have contributed much to the development of contempo-Music Educational Program, its subsequent outgrowth--Music Program, which are all child-oriented and thus types of music curricula which have subsequently emrepresent the most contemporary, innovative applications of philosophical perspectives to curriculum construction.44 tion of music education curricula. Examples of the ployed this Gestalt approach are the Contemporary the Hawaii Music Program, and the Manhattanville

orientations followed by the inception and developvelopment of music in the United States has tended to indicate an initial period of adult-centered gressive movement. This tendency towards a tradiwith the rise of the Progressivists during the second decade of the present century. Subsequent to this however, the traditional-adult-centered ment of a child-centered approach that came about tional stabilization of an approach to curriculum actions against some interpretations of the Pro-This brief evaluation of the historical detialism and reconstructionism, have provided reapproach manifested in philosophies like essendevelopment was in turn reacted against by further innovative child-centered approaches.

# Some General Guidelines and Principles

of music as well as the ability to appreciate and conceptualize about diverse trends and expressions tions outlined via the two categories established, development of both an awareness of the importance would best be served by the adoption of an eclecthose characteristics that would best foster the tic approach. Such an approach would attempt to for the development of a music curriculum which takes into account both the theoretical and historical postulations made thus far, our purposes If we were to attempt to propose guidelines distill from each of the philosophical orientaof this art form.

sentative of pre-established forms which the learner that the child be given those skills and tools that of curriculum development, the evolution of a wellindividual, the ability to conceptualize logically, proach the imparting of those skills and tools with Rather we would prefer mounded individual should take precedence over the then the ability to adapt with a minimum of diffiwhich the child should be equipped if he is to become a successful participant in the given society society is an important feature necessary to functioning in that society, this writer believes that culty should follow almost naturally. Of course, when we make reference to the idea of conformity, we are immediately led to think in terms of the adult-centered view which adopts as its major aphe could presently as well as subsequently use in to think of such skills and tools as being repreany experiences that he may encounter. In short, our primary aim is that he should develop that foregoing idea. If the emphasis is placed on developing the whole individual, and within that when viewing the purpose of education and hence, of which he is a member. However, we prefer not Although the element of conformity to a is expected to assimilate. ability to conceptualize.

necessary the acquaintance on the part of the learner This ability to conceptualize does not eschew

way, the tendency towards conceptualization as well tion to other aspects of that experience. In this fostered and should result in a more rounded individual whose appreciation of the particular study, for personal interpretation and judgement in relapersonality. Rather, such materials will be preterms of acquisition of knowledge and shaping of thus acquire a degree of realitivity that allows sented as a part of a total experience and will with materials that have come to be considered, according to a traditional viewpoint, pertinent as the development of critical ability will be to the insuring of cultural continuity both in music in our case, will be sharpened.

latter areas, but also by stressing the aforementioned ability to conceptualize, which would make for the advantage of the learner. This procedure would equip the student to meet successfully his present needs, manipulation of such verified knowledge to the best as well as provide him with the capacity to derive sidered basic components of the general education duced, not only by placing more emphasis on these With regard to those subjects which are conthat a greater degree of balance should be introthose areas that involve vocational training and de-emphasize the fine arts. We believe however, ganized knowledge" have always tended to exclude centered proponents on the communication of "oran appreciation of the past needs of the society and formulate his own conception of his future curriculum, the emphasis placed by the adult-

in that they are based on a concept of the child to which he belongs. This requires that a sense The considerations that we have postulated treated in the two categories we have developed thought of as being at one and the same time an individual in his own right needing to develop derived from the exposition of the philosophies above represent an eclectic rendering of ideas future adult-functioning member of the society which can be outlined as follows. He must be and express his own personality, as well as a

of balance be introduced into both the planning and the execution of any curriculum that will affect his education in such a way that he is insured success in meeting the demands of his environment.

ceptualize, be creative, and hence, arrive at valid involve the communication to the student of certain tools and skills related to this area of study. several aspects of music need to be presented with not only an awareness of the historical data assoperspective, since a curriculum planned from this conclusions regarding different manifestations of Secondly, such ability would of necessity ciated with the evolution of music in the form of to the specific area of the construction of music should be directed towards creating in the child, equal emphasis if the child is to develop any degree of aesthetic sensitivity towards the art of The application of these general principles this form of expression. In other words, these point of view would take into consideration the educational curricula would tend to develop and stress the following factors. First of all, we would consider it necessary that such a program The inculcation of these however, should be approached from what could be termed a "Gestalt" organized facts, but also the ability to contotal musical development of the child.

The implications of the development of the dual concept of education and the approach to the construction and execution of a curriculum based on a "Gestalt" perspective will be evident in the new facility that should be afforded the administrator and music educator in the planning of the various philosophical approaches to education and their summation in terms of the two rationales established will allow those concerned to develop a clearer perspective of the role of music education within the general curriculum, approach the planning of the music program with a keener focus, and formulate strategies for its implementation that will insure a continued interest in this area of

education on the part of the student far beyond the halls of learning of any educational institution. It is to these ends that this study has been directed.

### Footnotes

- 1. We suggest to the reader a comparison of the Julliard Repertory Series, edited by Claude Paliska and the Manhattanville Music Curriculum written by Ronald B. Thomas.
- 2. We refer to such authors as Tanner and Tanner, Eisner and Vallance, Virgil E. Herrick, Adrian Dupuis, B. O. Smith, and Doll--all writers in the field of educational curriculum.
- 3. There are of course many exceptions to this statement. There are still in existence various schools which choose to adhere to the more conservative oriented ideas and curriculum.
- 4.6. Robert Koopman, Curriculum Development (New York: The Center for Applied Research in Education, Inc., 1966), p. 2.
- 5. Lawrence A. Cremin, The Transformation and the School (New York: Alfred A. Knopf, Inc., 1961), p. viii.
- 6. Robert J. Shaeffer, "The Curriculum Retrospect and Prospect," in Curriculum Retrospect and Prospect, Robert M. McClure, ed. (Chicago: National Society for the Study of Education, The University of Chicago Press, 1971), p. 4.
- of Education (New York: The Macmillan Co., 1932), p. 32.
- 8. These so called "greatest ideas and objects that man has created" refer to a distillation of those virtues of the "permanent subjects" which have been embodies in the "Great Books" of the Western World. Robert M. Hutchins expounds on this idea in his The Higher Learning in America (New Haven: Yale University Press, 1936), p. 66.

- 9. William T. Harris (1835-1909) Superintendent of St. Louis Public Schools and the United States Commissioner of Education.
- 10. The conservative conception of truth is derived from the Platonic and Aristotelian conceptions of the nature of knowing. Both these systems of thought emphasized the primacy of intellect (or reason) in the process of arriving at either a code of ethics or a criteria for art.
- 11. The Latin phrase is translated into English as "A sound mind and a sound body."
- 12. Adrian M. Dupuis, Philosophy of Education in Historical Perspective (Chicago: Rand McNally and Company, 1966), p. 9.
- 13. Ibid., p. 13.
- 14. Herman H. Horne, This New Education (New York: Abingdon Press, 1931), p. 82.
- 15. William H. Kilpatrick, Foundations of Method (New York: Macmillan and Company), p. 32.
- 16. Jean Jacques Rousseau, Emile (London: J. M. Dent and Sons, Ltd., 1911), p. 5.
- 17. Lowell Keith, Contemporary Curriculum in the Elementary School (New York: Harper and Row Publishers, 1968), p. 29.
- 18. A famous Swiss educator who applied Rousseau's ideas of naturalism to a more structured concept of experimentation.
- 19. The Progressive movement was marked by a group of educators who attempted to use the methods of science to modify the elementary school curriculum lasting from (1876–1957 approximately). The movement began as a protest against the overemphasis of symbols and "book learning" in the curriculum and against the standardization of the curriculum.
- 20. Keith, Contemporary Curriculum, p. 33.

- 21. Foster McMurray, "Pragmatism in Music Education," in Basic Concepts in Music Education, Nelson B. Henry, ed. (Chicago, Illinois: The National Society for the Study of Education, 1958), p. 33.
- 22. William James, Talks to Teachers on Psychology (New York: Henry, Holt and Company, 1939), p.
- 23. John Dewey, <u>Democracy and Education</u> (New York: The MacMillan Company, 1932), pp. 89-90.
- 24. Don-Chen Chu, Philosophic Foundations of American Education (Dubuque, Iowa: Kendall/Hunt Publishing Company, n.d.
- 25. John Dewey, "My Pedagogic Creed," Journal of the National Education Association (December 1929), p. 13.
- 26. William H. Kilpatrick, "Philosophy of Education from the Experimentalist Outlook," The Forty-first Yearbook of the National Society for the Study of Education, Nelson B. Henry, ed. (Chicago: University of Chicago Press, 1942), p. 76.
- 27. Ibid., p. 77.
- 28. Ibid.
- 29. John Dewey, The Child and the Curriculum, Philip Phenix, ed. (Chicago: The University of Chicago Press, 1956), p. 16.
- 30. John Dewey, <u>Democracy and Education</u> (New York: The MacMillan Company, 1916), p. 226.
  - 31. Dewey, The Child, "My Pedagogic Creed."
- 32. Kenneth H. Hansen, Philosophy of American Education (New Jersey: Prentice Hall, 1960), p. 28.
  - 33. Foster McMurray, "The Present Status of Pragmatism in Education," School and Society 87 (January 17, 1959), p. 14.
- 34. John Dewey, Experience and Education (New York: The MacMillan Co., 1938), p. 5.

- part of the 20th century, the Council on Basic Education was established in 1956 in Washington, educational scene during the early and middle various critics, who were opposed to the Progressive ideologies that were dominating the In response to the concerns expressed by the 35.
- Benjamin Fine, The Modern Family Guide to Education (Toronto: Doubleday, 1962), p. 221. 36.
- Buy Brains," St. Louis Post Dispatch, September Frank E. Armbruster, "Math Lesson: Money Won't 7, 1977, p. 3<u>0.</u> 37.
- Ibid., September 8, 1977, p. 3D. 38.
- John Ciardi, Rutgers Alumni Monthly 34(2) (November 1954), p. 2. . 9
- MacMillan Publishing Company, 1975), pp. 66-67. Development--Theory Into Practice (New York: Daniel Tanner and Laurel Tanner, Curriculum **₽**
- Paul Monroe, "Philosophy of Education," Ency-clopedia of Educational Research (New York: MacMillan Co., n.d.), p. 697. 41.
- Foundations and Principles of Music Education (New York: McGraw-Hill Book Company, Inc., 1959), Charles Leonhard and Robert W. House, 42.
- Carol Gonzo, "An Aesthetic Experience," Music Educators Journal (December 1971), p. 36. 43.
- For a detailed treatment of the Gestalt Approach to education and its application in the programs Music Education and Pedagogy--Proposals for a Curriculum (k-6)," in the Missouri Journal of Research in Music Education 3(5) (1976), pp. Influence of Gestalt Psychology on Elementary referred to see my article: Rene Boyer, 44.

## **Bibliographical Entries**

#### Books

- History of Public School Music in tates. Philadelphia: Oliver Ditthe United States. son Company, 1928. Birge, Edward B.
- Cremin, Lawrence A. The Transformation and the New York: Alfred A. Knopf, Inc., School.
- Phenix, ed. Chicago: The University of Chicago The Child and the Curriculum. Press, 1956 Dewey, John.
- New York: The Democracy and Education. MacMillan Company, 1932.
- New York Experience and Education. The MacMillan Company, 1938.
- Chu, Don-Chean. Philosophic Foundations of American Education. Dubuque, Iowa: Kendall/Hunt Publishing Company, 1971.
- Dupuis, Adrian M. Philosophy of Education in His-Rand McNally Chicago: torical Perspective. and Company, 1966.
- Fine, Benjamin. The Modern Family Guide to Educa tion. Toronto: Doubleday, 1962.
- Music Gary, Charles (ed.). The Study of Music in the Washington, D.C.: Educators National Conference, 1967 Elementary School.
- Hansen, Kenneth H. Philosophy of American Educa tion. New Jersey: Prentice Hall, 1960.
- New York: The MacMillan Company The Democratic Philosophy of Horne, Herman H. Education.
- Abingdon New York: The New Education. Press, 1931
- The Higher Learning in America Yale University Press, 1936. Hutchins, Robert. New Haven:

83

Contemporary Curriculum in the Elementary School. New York: Harper and Row Publishers, 1968. Keith, Lowell.

New Kilpatrick, William H. Foundations of Method. MacMillan and Company, 1925. New York: an, Robert. Curriculum Development. New York The Center for Applied Research in Education, Koopman, Robert. Inc., 1966.

Leonhard, Charles and Robert House. Foundations and Principles of Music Education. New York: McGraw-Hill Book Company, Inc., 1959.

National Nelson, Henry B. (ed.). Basic Concepts in Music Education Part I. Chicago, Illinois: Natio Society for the Study of Education, 1958. New York: Philosophy of Pierce. Harcourt, Brace, and Company, 1940. Pierce, Charles S.

Rafferty, Maxwell L. What Are They Doing to Your Children? New York: New American Library,

. Suffer Little Children. New York: Deven-Adain Company, 1962.

London: J. M. Emile. Dent and Sons, Ltd., 1911 Rousseau, Jean Jacques.

Shaeffer, Robert J. The Curriculum Retrospect and Prospect. Chicago: National Society for the Study of Education, 1971. Sunderman, Lloyd F. New Dimensions in Music Educa-Metuchen, New Jersey: The Scarecrow Press, Inc., 1972.

New York: Curriculum Development--Theory Into Practice. MacMillan Publishing Company, 1975. Tanner, Daniel and Laurel Tanner.

Elnora, New York: Thomas, Ronald. MMCP Synthesis. Media Materials, Inc., 1970

Tyler, Ralph W. Basic Principles of Curriculum and Instruction. Chicago: The University of Chicago Press, 1975.

### Periodicals

Sept. 7, "Math Lesson: Money Won't Buy Brains," St. Louis Post Dispatch. Armbruster, Frank E. 1977.

"Progressive Education is Too Soft," Education, October 1939. Bagley, William C.

"The Influence of Gestalt Psychology Journal of Research in Music Education 3(5), on Elementary Music Education and Pedagogy--Proposals for a Curriculum (K-6)," Missouri Boyer, Rene.

Brickman, William W. "Essentialism and American Education," School and Society, April 20, Childs, John L. "John Dewey and American Education," eachers College Record, Dec., 1959

Rutgers Alumni Monthly 34(2), Nov., Ciardi, John.

, John. "My Pedagogic Creed," Journal of the National Education Association, Dec. 1929. Dewey, John.

Gonzo, Carol. "An Aesthetic Experience," Music Educators Journal. Dec. 1971.

Kilpatrick, William H. "Philosophy of Education from the Experimentalist Outlook," The Forty First Yearbook of the National Society for the Study of Education, Nelson B. Henry, ed., Chicago: University of Chicago Press, 1942.

The Case for It, Educational Digest, January, 1958 "Progressive Education:

McMurray, Foster. "The Present Status of Pragmatism in Education," School and Society, 87, Jan. 17,

Monroe, Paul. "Philosophy of Education," Encyclopedia of Educational Research. New York: MacMillan and Company, 1960.

### ABSTRAC

HARRY S. TRUMAN AND HIS PRESIDENTIAL ADMINISTRATION AS AN INFLUENCE ON MUSIC IN THE UNITED STATES 1945-1952

Cynthia M. Atwell, D.M.A. University of Missouri-Kansas City, 1979 There has been renewed interest in Harry S. Truman and his Presidency during the 1970's, and the world has come to admire his decisive leadership and straightforward manner. Truman's personal life as well as his public life contained these same qualities.

Truman always considered music to be a very important avocation; in his opinion, musical study helped to build character and understand other people. By examining music's part in Truman's private as well as his public life, one can decide whether a Chief Executive's interest in a field such as music effects that industry in the United States during the years of his presidency.

Truman's early years were filled with books and music largely because of his mother's influence. later, piano lessons and concert attendance molded fruman's love for music and his musical preferences.

While in the White House, Truman had a personal influence on music. He was an enthusiastic supporter of Inter-American Music Week and of American Music in general. He aided diplomacy with his plano performance at Potsdam, July, 1945. He was I loyal supporter of his daughter, Mary Margaret ruman and her career as a singer. Both Truman and his family attended concerts and personally hose the musicians who appeared during the only ormal social season while Truman was President,

As Chief Executive of the laws of the United tates, Truman did not initiate, but did sign laws hat affected many phases of the music industry.

oosers, Authors and Publishers and Broadcast Music, and an excessive excise tax on musical instruments. legislation which would subsidize music, especially to control the recording and television industries. musicians' union. Expanding music industries also provided problems for the American Society of Cominc., organizations that controlled licensing for composers. The manufacturers of pianos and other musical instruments tried to free themselves from the bonds of wartime limitations on raw materials r.p.m. record came into existence during Truman's term of office and so did attempts by James C. Petrillo and the American Federation of Musicians The Lea Act was passed by Congress to police the in addition, repeated attempts were made to pass The long-playing 33 1/3 r.p.m. record and the 45 radio and television stations and royalties for in Washington, D.C.

literature. Some research was done concerning popular music of the Truman era, but since a strong re-Truman's early musical training and subsequent lationship could not be established, that material interests were largely limited to the classical was excluded from the thesis.

### ABSTRACT

RECOGNITION OF CHEST, HEAD, AND FALSETTO REGISTERS OF ISOPARAMETRIC TONES OF TENOR VOICES

University of Missouri-Kansas City, 1979 Charles L. Beard Jr., D.M.A.

compare listener-judges regarding their ability to identify Chest, Head, and Falsetto registers of isoparametric tones of tenor voices. Isoparametric sound pressure level, and phonemic category sung in different vocal registers. The data from the pertones are tones of the same fundamental frequency, The purpose of this study was to examine and analyzed to determine listener-judge accuracy in ceptual judgments of the listener-judges were

identifying Chest, Head, and Falsetto register iso-parametric tones. The data were analyzed to deidentify vocal registers and to determine whether the listener-judges based their judgments on comtermine whether the sex of the listener-judge or the university where he taught had an effect on parison of registers of a given singer or judged the listener-judges regarding their ability to the Chest, Head, and Falsetto register tones against a fixed standard.

It was also of interest to determine whether differences in perception were related to differences in the acoustic spectra of Chest, Head, and Falsetto register tones. In addition, the possibility of the tenors having modified the vowel in order to isolate registers was explored.

in a sound treated booth while singing Chest, Head, ter. From each original Chest, Head, and Falsetto register tone a center portion of 2.5 seconds durapresented in groups of three tones sung by the same tenor, but in which the order of presentation of or the number of registers could be varied. The final listening tape consisted of fifty items ("item" was Each of four tenors was recorded individually "ah" for approximately four seconds in each regismental frequency (350Hz) and sound pressure level. tion was spliced out (as an attempt to remove any seconds in duration, were copied so they could be Each tenor was instructed to sing the vowel /a/ and Falsetto register tones at the same fundacues that might be present in the onset and/or termination of a tone). The twelve tones, 2.5 defined as a group of three tones).

universities performed the judging task. Listener-judges after hearing each member of an item, consisting of three tones, were to label the order of teachers on the faculties of six large Midwestern Seventeen listener-judges who were singing resentation.

Acoustical analysis of the twelve tones was conducted with the use of a sonograph.

by having a separate group of ten judges listen to the twelve tones and identify the vowel they had from the sonograph frequency-versus-amplitude disthe tenors having modified the vowel was explored plays was converted to bar graphs as a means of comparing each tenor's Chest, Head, and Falsetto register tones. In addition, the possibility of

The interpretation of the results of this research study permits the following conclusions:

- the tenor singers producing isoparametric tones listener-judges agrees with the intentions of Register identification by singing teacher in Chest, Head, and Falsetto registers
- difference between the overall accuracy of groups female listener-judges appear to be able to identify most accurately the register which they Although there was no statistically significant of male and female listener-judges, male and use most often
- Singing teachers grouped by university appear to possess varying abilities in identifying Chest, Head, and Falsetto register isoparamatric tones က
- The listener-judges appear to use comparison of registers of a tenor as a means of identifying registers
- ability of listener-judges to identify registers The position (Member A, B, or C) in the item of a register does not appear to effect the . 2
- be related, at least in part, to different distributions of energy in the acoustic spectra of Chest, Head, and Falsetto register isoparametric Perceived register timbre differences appear to ė.
- Certain tenor singers appear to be unable to sing Chest, Head, and Falsetto register isoparametric tones without some modification of vowel

### ABSTRACT

JACQUES HOTTETERRE'S L'ART PRELUNDER /FOR WIND INSTRUMENTS/ A TRANSLATION AND COMMENTARY

University of Missouri-Kansas City, 1979 Margareth Anne Boyer, M.M.

Traversiere, ou Flute d'Allemagne, De la Flute a Bec, ou Flute Douce, et du Haut-bois (Paris, 1707), Jacques Hotteterre (c. 1680-1761) is probably best known today for his Principes de la Flute but he was also the author of a Methode pour le musette (Paris, 1734) and of L'Art de Preluder Sur la Flute Traversiere, Sur la Flute-a-Bec, Sur le Haubois, et autres Instrumens de Dessus, Avec des leurs agrem.<sup>S</sup> et de plus!<sup>S</sup> difficultees propres a exercer et a fortifier. Ensemble des Principes Preludes tous fait sur tous les Tons dans differ mouvem.s et differens caracteres, accompagnes de entes expeces de Mesures, &c. (Paris, 1719), the subject of the present work. de modulation et de transposition; En outre une Dissertation instructive sur toutes les differ-

lustrate his discussion of meter, tempo, and rhythmic alteration and which have been identified by L'Art de Preluder together with an introduction discussing preludes for wind instruments in the early eighteenth century, and commentary in the form of footnotes to the text. Of particular of major composers which Hotteterre used to il-This thesis presents a translation of the interest are nearly 70 examples from the works the translator.

Methode pour la musette) are given as an appendix. A photocopy of the entire L'Art de Preluder is also the preludes and traits given by Hotteterre in his book. Other preludes by Hotteterre (from his The translation includes a transcription of given to facilitate study.

### ABSTRACT

CONDUCTOR'S ANALYSIS OF AND PREPARATION AND APPROACH TO POLYRHYTHMS: WITH PARTICULAR ATTENTION TO POLYRHYTHMS IN CERTAIN OF THE CHORAL WORKS OF CHARLES E. IVES

University of Missouri-Kansas City, 1978 Jack C. Groh, D.M.A.

the lack of performances of several works by Charles Ives. It was determined that even though several of these works were highly praised by writers, actual presentations were few due to the performance diffi-This study was prompted to a large degree by culties presented.

The main purpose of this study was to examine one of the most formidable of these difficulties, that of polyrhythmic activity, and ascertain how this particular problem could be overcome.

paid to the Three Harvest Home Chorales. This work chosen because of the high degree of polymythmic activity in the second of the three Chorales, where An attempt was made to place the music of Ives in perspective generally with particular attention on several occasions there exists the rhythmic ratios of 9:8:6.

centrate on multiple time beating. In the case of the 9:8:6 ratio, if the conductor beat four in one Several possibilities for the solution of the had the six element could watch the three pattern conductorial problems were presented and it was determined for the purposes of this study to conthen be negotiated by watching the three pattern and thinking three beats for every two presented. hand and three in the other, the performers who and the performers with the eight element would watch the four pattern. The nine element could

sonal experimentation and work with several control Billotti Trinome, an instrument capable of producing three tempi simultaneously. Through per-A set of exercises was developed using the

to free the intellect to concentrate on other musigroups it was determined that, using this instru-ment and several other drills presented, most students could learn to beat these multiple tempi in that prolonged practice was necessary before this task could be performed with the facility needed a relatively short time. It was found however, cal elements.

tested in two situations; the first in a one hour rehearsal with the UMKC Conservatory Chorale and the second in prolonged rehearsal with the Schola The practical application of the theory was Cantorum of the University of Arkansas.

The results of both of these rehearsal periods The rehearsal time spent on the second Chorale was were successful, culminating in a performance of the Three Harvest Home Chorales with the Schola Cantorum, brass and organ on November 21, 1977. approximately ten hours.

preparation is considerable. This time is justi-fied, however, if a work of this nature can be pre-pared for performance with ten hours rehearsal. The most important contribution of this study has been to develop procedures, by which the time needed in rehearsal to prepare a work such as the Three Harvest Home Chorales can be reduced appreciably. The time required for the conductor's

### ABSTRACT

A CONCERTO IN G MAJOR FOR SOLO TRANSVERSE FLUTE, TWO VIOLINS, VIOLA, AND BASS BY LEONARDO LEO: AN EDITION

University of Missouri-Kansas City, 1978 Judith Johnson Herndon, D.M.A.

Leonardo Leo (1694-1744), was known primarily for his comic operas and his choral compositions for the church. In no comprehensive list of his work The eighteenth-century Neapolitan composer,

at least one of these works to light and to make it available for performance, an edition of it has been prepared as the second valume of this dissertation. But in order to bring tain two such concertos. On the title page of each .eo." Whether or not these concertos are actually by Leo or are only attributed to him by some copy-Wational-bibliotheck in Vienna, Austria, does conconcerto is written the phrase "Del Sig: Leonardo is there any mention of concertos for solo transnumber SM 3705, housed at the Oesterreichische However, manuscript ist has not been determined. werse flute and strings.

work has yet been found. All parts appear to be the work of one copyist, and in some respects they seem to have been prepared in anticipation of perwork, and it represents an attempt to clarify some read, but there are also confusing and misleading The concerto in question is for five instruser! "Flutraversiere [Sic] Concerto, Violino notations. The present edition has been made in score form to allow for expedient study of the Primo, Violino 2do, Alto Viola, Col Basso." The manuscript includes only parts; no score of this formance. However, there are not only many instances in which the manuscript is difficult to of the discrepancies found in the parts.

for many years among his several biographers. Chapconfusion about the facts of his life which existed of Leo's biography, presented with emphasis on the Chapter The Introduction to the first volume of the the manuscript. Chapter one is a brief outline problems encountered in making the score and of dissertation contains a physical description of the procedures involved in attempting to solve three is an explanation of the many editorial ter two is an analysis of the Concerto. those problems.

Leo's Concerto is somewhat uncharacteristic of its time in that it contains four movements rather than three. In most other respects, however, it appears to be typical of the early eighteenth-century solo concerto idiom.

with a considerable amount of virtuoso-style figurafeatures the solo flute in a range to which it is well suited and displays its technical capabilities tion and passage work. The soloist plays with the strings during most of the tutti sections. The string parts provide a basically homophonic accompaniment for the soloist.

The Concerto adds to the repertoire of the early eighteenth-century solo flute concerto, a repretoire which is enjoying a period of rediscovery by performers and audiences alike.

### ABSTRACT

# CONCEPT TASKS YOUNG CHILDREN CAN MASTER

University of Missouri-Kansas City Elementary Music Education June Thomsen Jetter, Ph.D.

enable him to hear music and make musical decisions music-teachers-in-training, one graduate assistant, olds on twenty-two musical concept tasks when AVII year-olds in seven day care centers served as sub-jects in the investigation. Two to four musical What kinds of tasks can young children master? This study compared the achievement of four-yearby the graduate assistant on the first task these The music concepts an individual has stored and one experienced lay teacher. Data gathering half-step interval recognition. Children taught was carried out between October 1978 and October 1979. Subjects achieved mean posttest scores of twelve on posttests for all tasks except that of model instruction was used for teaching. Fourconcept tasks were taught in each center by ten six to nine correct responses out of a possible higher posttest score mean than children taught two groups undertook. There was no significant early can acquisition of those concepts begin? by the experienced teacher had a significantly that are the basis of musical perception.

the next task assigned to them, showing that experience with AVII concept teaching is still an effect. No significant difference was found for two of those retention means higher than for the tention test means on three of seven tasks, with timbre identification for children instructed by difference between means of these two groups on experienced teacher and teacher-trainees on any task. The teacher-trainees had had experienced with the model teaching in their methods class. No significant difference was found for bassoon differences were found between posttest and reour different teacher-trainees. Significant comparable posttest.

### ABSTRACT

A PHOTOGRAPHIC, AIR FLOW DIRECTION, AND SOUND SPECTRA ANALYSIS OF TWO TRUMPET EMBOUCHURE TECHNIQUES

University of Missouri-Kansas City, 1979 Walter Jerry Myers, D.M.A.

by these embouchure techniques, and to compare graphi-The purpose of this study was to compare photographically upper and lower lip inversion of two termine and compare air flow direction as influenced cally the strength of partial tones within the tonal spectra of selected frequencies and intensities as contrasting trumpet embouchure techniques, to degenerated by each embouchure system.

ap. The other embouchure encouraged downward air flow direction as influenced by less upper lip inless upper lip inversion and more upper lip over-One embouchure en-Two basic embouchure systems appear to have pervaded trumpet performance. One embouchure er couraged more horizontal air flow direction and was characterized and apparently influenced by version and more upper lip overlap. Four male trumpet performers, two of whom were adept with the first mentioned embouchure system

system the subjects were asked to add an extraneous part of a quasicontrolled system. To this closed and two with the second system, were selected as permitting the upper lip to slightly overlap the bottom lip while performing the desired tones (written C4, C5, and C6). The experimental embouchure provided a vehicle for testing altered embouchure technique or independent variable by lip relationships.

problem were six close-up photographs of each subject's embouchure (both control and experimental) while buzzing the desired three test tones on an instrument mounted mouthpeice visualizer. Each The data needed for solving the first subsubject was compared to himself for identifying individual lip inversion changes.

buzzing the desired frequencies on a trumpet mounted mouthpiece visualizer. A brass plate was mounted angle measurement above or below the horizontal axis direction produced by each embouchure setting while on the mouthpiece visualizer in a position to split through the plane of symmetry. A small drop of Next, measurements were gathered of air flow through the plane of symmetry. A small drop of blue water color was placed at the source of lip vibration. A resultant flow pattern provided an of the trumpet.

The data needed for solving the third subproblem were (a) a tape recording of the subjects performing the sample tones, (b) a harmonic analysis of the recorded tones, and (c) a graph conversion of the harmonic analysis.

level calibrator. The output from the sound level meter was transmitted to a Beckman frequency counter parallel axis to the bell of the test trumpet. The output of the B&K microphone was fed to a B&K sound A Bruel and Kjaer microphone was mounted on a and simultaneously recorded.

The output of the frequency analyzer was delivered tones, and were fed into a B&K frequency analyzer. Tape loops were made of the recorded trumpet to a B&K graphic level recorder. The harmonic

analysis was displayed on strip chart paper which was converted to line graphs.

The major conclusions which have been advanced from this study may be summarized as fol-

lows:

1. Measurements obtained via photographic data of trumpet embouchure settings can be related to the amount of upper and lower lip inversion utilized at selected frequencies and intensities.

2. Trumpet performers tend to experience changes in upper and lower lip relationships when negotiating register changes within a normal tessitura.

3. Increased upper lip inversion, more lower lip involvement, and a greater upward air flow direction can assist in producing low register trumpet

4. Stronger relative pressure amplitudes of the constituent partials of trumpet sound spectratend to be encouraged with the use of less upper lip overlap.

5. Trumpet embouchure techniques which utilize less upper lip inversion (more upper lip overlap) encourage lip movement during register changes.

6. Air flow direction may be influenced by the amount of upper and lower lip inversion employed when trumpet performers buzz selected frequencies and intensities.

7. Within accepted limitations, trumpet embouchure technique involving upper and lower lip relationships may be isolated and acoustically analyzed.

8. Both lips, not just the upper lip, can be significant vibratory membranes in the activity of trumpet tone production.

9. Trumpet embouchures using less upper lip overlap produced generally more even and smoother spectra than those embouchures using more upper lip overlap.

10. In general, trumpet performers who use more lip inversion, and who employ more horizontal air flow direction tend to produce partial tones of greater strength within the tonal spectra of selected frequencies and intensities.

### ABSTRACT

A COMPARISON OF THE TONAL MEMORY SKILLS
AND RHYTHMIC MEMORY SKILLS
OF SECOND-GRADE CHILDREN

Patricia Harvey Powell, M.M.Ed. University of Missouri-Kansas City, 1979 The problem in this study was to compare the tonal memory skills and rhythmic memory skills of second-grade children when singing accuracy, reading level, sex, and age were controlled factors.

The 40 subjects for this quasi-experimental study were selected from the 141 second-grade children enrolled in the Buckner Elementary School, Buckner, Missouri, during the school year, 1978-79.

The identification of accurate and inaccurate singers was based on the ability of each child to sing the song selected for the Vocal Accuracy Test (VAT). An accurate singer was judged as one who matched the beginning pitch and sang the remaining pitches with a degree of accuracy consistent with classroom performance standards as evaluated by the investigator. An inaccurate singer was judged as one who failed to match the beginning pitch and/or failed to sing the remaining pitches with a degree of accuracy consistent with classroom performance standards as evaluated by the investigator. Forty subjects, 20 accurate singers and 20 inaccurate singers, were selected for further testing.

The Tonal Memory Test (TMT) consisted of 24 paired melodic items performed on a piano which were identified as "same" or "different." Melodic patterns based on major, minor, and pentatonic

tonalities and containing steps, skips, and repeated tones were constructed for these items.

The Rhythmic Memory Test (RMT) consisted of 24 paired rhythmic items identified as "same" or "different" and performed on a woodblock. Rhythmic patterns and time signatures were used which were representative of second-grade song material.

The data were recorded on a tally sheet and transferred to data cards for data processing. Data analysis was accomplished through use of programs from the Statistical Package for the Social Sciences (SPSS). Data were treated according to frequencies, one-way analysis of variance, crosstabulation, multiple regression, t-test, and Kuder-Richardson formula 20. The level of rejection of a hypothesis was p <.05.

In this study tonal memory skills and rhythmic memory skills of 40 second-graders were compared when singing accuracy level, reading level, sex, and age were varied. The following conclusions were reached: (1) Tonal memory and singing accuracy were significantly related. (2) Tonal memory and reading level were significantly related. (3) Rhythmic memory and sex were significantly related. (4) There was a significant relationship between singing accuracy and sex. (5) There was no significant relationship between tonal memory and sex or age. (6) There was no significant relationship between rhythmic memory and singing accuracy, reading level, or age.

### ABSTRACT

THE PHI FACTOR: MATHEMATICAL PROPORTIONS IN MUSICAL FORMS

James A. Rothwell, D.M.A. University of Missouri-Kansas City, 1977 This study documents the presence of the golden ratio as a structural element in the forms of selected

works from five musical periods--Renaissance to Twentieth-century. Detailed historical accounts of the golden ratio and Fibonacci series, and a mathematical derivation of the golden ratio and its common approximations are included as background material. An overview is presented of previous analytical work on the subject.

A method of proportional analysis is suggested, based on observed roles of mathematics in music. Ten premises are stated which categorize those observed roles and allow for other possibilities of structural organization. Two computational aids—an analytical program and a table of historically significant numbers—are included. Suggestions are given for the application of proportional analysis to matters of tempo and timestructure interpretation.

Examples of proportional analysis include the following works:

Bach, J. S.: Contrapunctus 2, S. 1080. Inventio 3, S. 774. Inventio 8, S. 779. Inventio 10, S. 781. Kleines harmonisches Labyrinth, S. 591. Wachet auf: ruft uns die Stimme, S. 645.

Barber, Samuel: Sonata for Piano.

Bartok, Bela: Sixth Quartet.

Binchois, Gilles: De plus en plus

Brahms, Johannes: Acht Klavierstuecke, op. 76 no. 1. Balladen fuer Pianoforte, op. 10 no. 3. Waltzer fuer Pianoforte, op. 39 nos. 5, 6, 11, 12, 15.

Chopin, Fryderyk: Prelude, op. 28 no.

Gibbons, Orlando: Fantasia.

Handel, George Frederic: Hallelujah chorus, Messiah.

Haydn, Joseph: Symphony 97.

Hindemith, Paul: Interludium (Valse), Ludus Tonalis. Zweite Sonate fuer Klavier.

0

Janequin, Clement: Guillot ung jour.

Maffoni, Hieronimo: Quam pulchri sunt gressus

Mozart, W. A.: Quartet no. 23, K. 590. Quintet fuer Piano-forte, Oboe, Clarinette, Horn, und Fagott, K. 452. Sonate no. 15, K. 545.

Obrecht, Jacob: Tsat een meskin.

Prokofieff, Serge: Pensees, op. 62. Two pieces,

Rachmaninoff, Sergei: Symphony no. 2.

Saint-Saens, Camille: Vogue, vogue la Galere. Schubert, Franz: Die Stadt. Liebesbotschaft.

de Sermisy, Claudin: Au ioly boys.

Stravinsky, Igor: Octet for Wind Instruments.

Walk, Hugo: Er ist's.

Analyses of these works indicate that structural proportions based on phi most frequently employed fractional values (5/8 and 8/13), although a few instances were noted of proportions based on the accurate reference value for phi, 0.618. Events frequently placed at significant structural locations include melodic repetitions—such as recapitulation—and disturbances to flow—such as meter changes or fermatas. Also high in structural importance were musical events affecting the dynamic properties of a work: loudness, note density, register, rate of activity and similar factors. The commonality of mathematically—based structural proportions to a wide range of musical periods suggests that, as much as any other single factor, structural coherence is essential in musical organization.

### ABSTRACT

THE USE OF THE TUBA IN THE SYMPHONIC POEMS OF RICHARD STRAUSS

John L. Smith, Jr., D.M.A. University of Missouri-Kansas City, 1979 The purpose of this dissertation is to define the role of the tuba in the symphonic poems of Richard Strauss. In order to place this analysis within historical perspective, background information concerning the tuba, Strauss, and the symphonic poems was provided. Berlioz's Treatise on Instrumentation, as revised by Strauss, was examined to provide a comparative analysis between the tuba orchestration techniques as espoused in the text and the scoring techniques that were evident in

dynamics, balance and blend, and special techniques. analyzed according to the following criteria: freuse, rhythmic treatment, special effects, and idiomatic problems. An examination of ensemble charac-When applicable, data comparisons were made between the bass and tenor tuba parts, and (3) the tuba range, articulation, melodic characteristics, solo The tuba parts of the nine symphonic poems were examined in terms of individual and ensemble characteristics. Individual characteristics were (1) the first four and last five symphonic poems, teristics provided information concerning the relationships between the tuba and the orchestra. Criteria considered for this analysis concerned quency of use, pitch range, tessitura, dynamic heterogeneous instrumentation, multiple tubas, harmonic voicing, timbre effects, comparative and trombone parts.

The conclusions found in this study attest to the superb orchestrational skills attributed to Strauss. He explored and employed many new concepts in orchestrating the tuba. Such orchestration techniques presented the tuba as an important and equal constituent of the orchestral resources.

### ABSTRACT

WILLIAM LEVI DAWSON (b. 1898) AND AN ANALYSIS OF HIS NEGRO FOLK SYMPHONY (1932; Rev. 1952)

University of Missouri-Kansas City, 1979 Jacqueline Kay Thompson, M.M.

bama, on September 26, 1898. At the age of thirteen, training. After graduating from the Tuskegee Institute in 1921, Dawson taught at the Kansas Vocational William Levi Dawson was born in Anniston, Ala-Jawson ran away from home to Tuskegee Institute in Alabama where he received his first formal musical director of music at Lincoln High School in Kansas College in Topeka, Kansas, and later became the City, Missouri.

While in Kansas City, Dawson studied theory at the Horner Institute of Fine Arts and composition with Sir Carl Busch. In 1925, Dawson received a Bachelor of Music degree (with honors).

same symphonic form used by composers of the romantic-nationalistic school: Brahms, Dvorak, and Masters degree in composition in 1927. He remained Weidig at the American Conservatory and received a Dr. Thorvald Otterstrom. It was during this post-Folk Symphony, a symphony in the Negro folk idiom, based on authentic Negro folk music, but in the graduate study that Dawson began work on his Negro Dawson left Kansas City for Chicago, where he at the Conservatory doing post-graduate work with studied composition on scholarship with Adolph Chaikovsky.

Stokowski. Stokowski, conductor of the Philadelphia Orchestra, scheduled a world premiere performance 1932 and it was brought to the attention of Leopold of Dawson's symphony on November 16, 1934 at Phila-Dawson completed his Negro Folk Symphony in delphia's Academy of Music.

Returning to the United States in 1952 from a visit to West Africa, Dawson turned to his symphony

and revised the scoring of the third movement, inwas released during the one hundredth anniversary of the Emancipation Proclamation (1963). fusing it with rhythmic characteristics strongly had recently organized the American Symphony Orfinished, Dawson again contacted Stokowski, who chestra. The recording of this revised version inspired by his African visit. When it was

of the famed Tuskegee Institute Choir. More signifi-Dawson gained international acclaim as director cant perhaps, are his compositions and arrangements of music in the Negro spiritual genre as important sources for this segment of musical America.

strument. Dawson also uses what he calls a "lead-ing motive" in all three movements after it appears Dawson's Negro Folk Symphony (1932; Rev. 1952) is a three-movement work utilizing Negro folk the themes is a short-long (syncopated) rhythm and a tendency to introduce them with a solo wind inmelodies as thematic material. Characteristic of in the opening measures of the symphony. strument.

A complete list of works and a discography follows the symphony analysis.

### **ABSTRACT**

A STUDY OF ATTITUDES, COMPETENCIES, AND UNDERSTAND-INGS ACHIEVED THROUGH THE MEDIUM OF ELECTRONIC MUSIC IN SELECTED UPPER ELEMENTARY AND JUNIOR HIGH SCHOOL CLASSROOMS

Faculty Advisor: Professor Clyde M. Morris The University of North Dakota, 1972

Fredrick R. Willman, Ph.D. University of Missouri-St. Louis Music Education

### Problem

The purpose of this study was to test a basic upgraded program of study in electronic music

suitable for use in grades five through eight.

### Procedure

The research population consisted of 339 students drawn from two elementary schools and one junior high school in the Grand Forks, North Dakota, Public Schools. These students were grouped into seven pairs of experimental and control groups. For one semester the experimental groups received music instruction using an electronic music-based curriculum while the control groups received more general, traditional music instruction. Measurements were made with a battery of four pre/postences to determine any possible significant differences in attitude toward music, competencies in electronic music, and musical concept development that existed between the experimental and control groups.

The statistical techniques utilized for this study were analysis of covariance and analysis of variance by regression. Analysis of variance was included to identify any effects that could be attributed to the covariate. The .05 level of confidence was established a priori for determining the significance of the analyses.

### Findings

- 1. There were no significant differences between the control and experimental groups in attitude toward music.
- 2. In a majority of the groups tested, the experimental groups showed a significantly better mastery of competencies in electronic music than did the control groups.
- 3. Exposure to and involvement with electronic music contributed to a higher level of conceptual development for a majority of the experimental groups (for the portion of the musical concepts measured by the fourth test) than for the control groups.

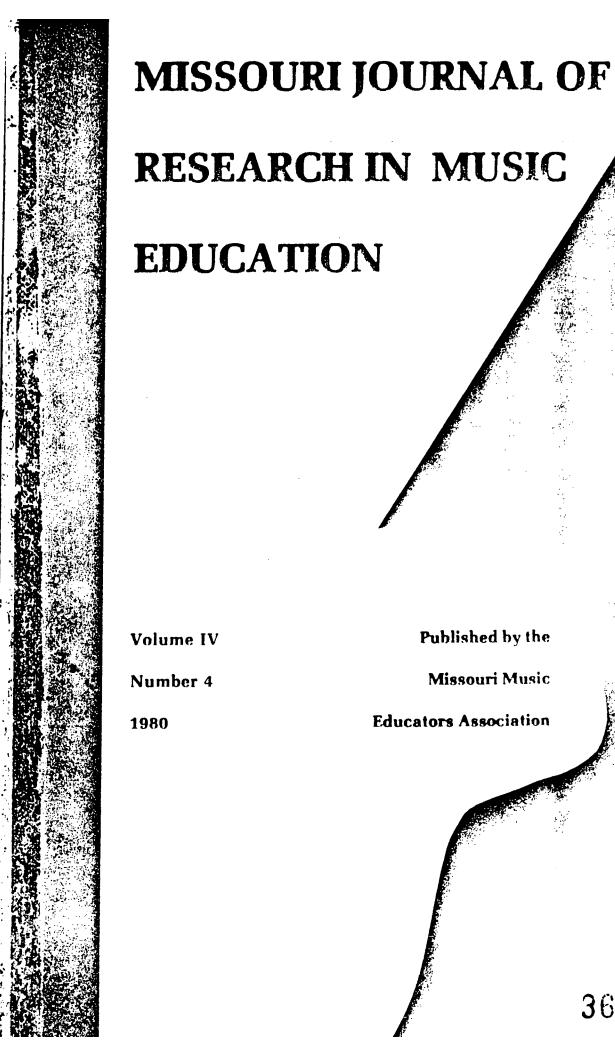
106

4. Students' opinions of electronic music and their reactions to its inclusion in music class are much more positive in seventh and eighth grades than in fifth and sixth grades. There was a wide range of likes and dislikes; most students were able to tell quite specifically why they either liked or disliked electronic music. However, the comments seem to indicate that most students had not yet reached the point of being able to identify with the aesthetic aspects of electronic music.

### Recommendations

- 1. Some electronic music should be introduced at each grade level with the main emphasis occurring at the seventh and eighth grades. Becoming familiar with terms and techniques appears to be one of the greatest obstacles for students. A gradual acquisition of necessary knowledge and skills could be much more easily developed if electronic music were started in the lower grades.
- 2. The development of musical concepts (through exposure to and involvement with electronic music) that are applicable to many kinds of music has not been conclusively established by this study. Further study should be undertaken to identify these concepts. The need for a reliable test instrument is crucial.
- 3. Electronic music's many sound capabilities lend themselves to unlimited development of the creative capacity. Additional studies should be made to uncover the potential of electronic music in relation to research findings in other phases of creativity.
- 4. Electronic music study should last for a period of time that will enable students to master the mechanical aspects well enough for the aesthetic aspects of the music to become the central focus of the learning experience.
- 5. An electronic music-based class should be considered, on an elective basis, as an alternative to the traditional general music class in grades

seven and eight. An additional study could be made to determine the differences between the electronic music-based class and the traditional general music class when self-selection (choice between electronic or traditional class) is made available to students.



#### MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

#### Published by the Missouri Music Educators Association

Volume	IV	1980	Number 4
I.	Theory and Grou Theory David Montano	ed Upon Learning p Interaction	. 7
II.		lementary String hestras to 1950 ington, iversity,	
III.	Music Education Lewis B. Hilt Washington Un	on (Ret.)	63
IV.	Selected Abstra Education	cts in Music	
•.	A. The Horn in Gustav Mahle Edward J. University Carolina,	r Bostley,	74
	Styles of Th Century Amer Choral Music Ron Nelson, Dennis K.	Cox,	,
	university	of Maine, Orono.	76

ပ	A S	 ເ	
	in Selected Major Choral Works		
	ony M. Davis, Texas Univer- ity for Women, Denton	2.8	
ë	The Choral Music of Randall Thompson, An American Eclectic Byron W. McGilvray, San Fran- cisco State University		
ம்	A Comparison of Two Approaches of Teaching Brass Instruments to Elementary School Children John J. Milak, Washington University, St. Louis	81	
• [2]	An Application of the Principles of Carl Rogers and Jerome Bruner to a Music Methods Course for Elementary Education Majors Mary Ann Mulligan, Fontbonne College, St. Louis 8		
ເວົ	Italian Solo and Chamber Music for the Clarinet1900-1973: An Annotated Bibliography Orval B. Oleson, University of Missouri-Kansas City	. 98	
÷	The Development of Comprehensive Musicianship in the Secondary Instrumental Music Program Elvis O. Spearman, Washington University, St. Louis 9	92	
	Poetic Imagery in the Songs of Benjamin Lees Shirley A. Westwood, Univer- sity of Missouri- Kansas City 9	. <b>76</b>	

# MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

Editor: Jack R. Stephenson Conservatory of Music University of Missouri-Kansas City Kansas City, Missouri 64111 Telephone: 816 363-4300

## Editorial Committee:

Tilford Brooks
Department of Music
Washington University
St. Louis, Missouri 63130
Telephone: 314 889-5585

## Charles Emmons

Department of Music University of Missouri-Columbia Columbia, Missouri 65201 Telephone: 314 882-3438

### June Jetter

Conservatory of Music University of Missouri-Kansas City Kansas City, Missouri 64111 Telephone: 816 363-4300, Ext. 206

## F. Bion McCurry

Department of Music Southwest Missouri State University Springfield, Missouri 65802 Telephone: 417 883-3297

### Douglas Turpin Director of Music-Parkway Public School 465 Northwoods Mill Road

Chesterfield, Missouri 63017 Telephone: 314 851-8100

~

# Editorial Committee (continued):

Fred Willman
Department of Music
University of Missouri-St. Louis
8001 Natural Bridge Road
St. Louis, Missouri 63121
Telephone: 314 553-5980

## Submitting Manuscripts:

- Contributions to this journal should be sent to the Editor. (See page 3 for the address.)
- 2. The editors welcome contributions of a philosophical, historical, or scientific nature which report the results of research pertinent to instruction in music in the educational institutions of Missouri.
- 3. Articles should be typewritten with double spacing throughout including footnotes, long quotations, and itemized lists.
- at the end of the article beginning on a new page using double spacing between notes. Authors reporting quantitative studies may substitute a list of references for footnotes in accordance with practice followed in many scientific journals.
- i. Manuscript style should follow recommendations made in the APA Publication Manual.
- 6. All contributors are advised to keep a copy of any manuscript submitted. The Editorial Committee cannot be responsible for loss of manuscripts.

## Securing Copies:

- 1. Request for the current and back issues should be made directly to the Editor.
- 2. Costs including mailing: current issue, \$2.00; back issue, \$1.00.

### PREFACE

The Missouri Journal of Research in Music Educators Association, is devoted to the needs and the nation. This issue, Volume IV, Number and interests of teachers of music in Missouri Education, published by the Missouri Music 4, is the nineteenth.

balance among music theory, history, philosophy, again be sent to the Editor concerning the content of this issue. We strive for a reasonable The members of the Editorial Committee are grateful to those readers who have written suggestions concerning the content of past issues and request that criticisms and suggestions aesthetics, and pedagogy.

Missouri Music Educators Association for their continue to publish the Missouri Journal of We express our deep gratitude to the financial support to make it possible to Research in Music Education.

The Editorial Board

### A PHILOSOPHY FOR GROUP PIANO INSTRUCTION BASED UPON LEARNING THEORY AND GROUP INTERACTION THEORY

### University of Denver David Montano

value of the adaptation of the individual to the he has concluded, "draws people together for the based upon learning theory and group interaction theory, concerning the advantages that the group groups or continually more significant participation in the same groups.<sup>2</sup> "Music by nature," group can hardly be overestimated in a society. setting can have in plano teaching, along with investigation in the area of plano teaching as Gaston's ideas are as pertinent to thought and they are to general music teaching and musical purpose of intimate, yet ordered, function."3 ensemble teaching. It is the purpose of this participation in continually more significant individual as the development of self toward Group music brings a feeling of belonging."1 some discussion of practical considerations. E. Thayer Gaston has written that "The article to detail a philosophical position, Gaston describes the life progress of an

· Four theoretical principles synthesized by this author from the literature in learning and rationale for teaching plano students in groups and in particular for utilizing techniques of fostering productive interaction in the group education can form a major portion of the instructional environment:

1. Intrinsic motivation is a powerful force in human learning.

- problems, is of great importance in the mental 2. Intrinsic motivation in particular to processes involved in the higher intellectual discover truths, concepts, and solutions to
- 3. Besides knowledge in particular fields of human activity and understanding, the development highest capacities is of great importance to the of individuals' intellectual skills to their human condition.
- learning can be especially nurtured in productive processes of group interaction among students. 4. Intrinsic motivation and discovery

significant influence upon modern educational thought and research. In addition, research in These theoretical principles can be found major learning theory formulations which have group interaction psychology and productivity can be cited which supports many conclusions within, or deduced as expansions upon, some reached in the theories discussed here.

## First Theoretical Principle

theories of the internal in human psychology, is stimuli and responses, then complete reliance on teaching models to only those processes that can dynamics in learning settings. This consideration cannot be overestimated. Specifically, if The concept of intrinsic motivation, from philosophy that places great value upon group be explained in terms of directly observable individual programmed instruction, focusing of particular importance to an educational one is to limit the influences upon one's

entirely on the individual's behavior from what ever, if one does not restrict oneself to those limits, theories of internal structure in human inforcement, would seem to be the logical culposition wherein a social component and thus psychology lead logically to a philosophical group dynamics might be held, as they are in is known about operant conditioning and rethis article, to be of optimum value in the minating product of educational science. learning process.

ture, states, and organization of the mind which knowledge of the stimulus-response relations is now, but may some day be able to, validate with research. area. The general position is that the task of psychology is to understand the internal strucnot an end in itself but only one means towards theory upon only directly observable phenomena. infering such an understanding of the internal. Although his starting point is linguistics, he behaviorist B. F. Skinner in which he provides questioned in detail the behaviorist position which restricts the building of psychological lengthy arguments to say that a reliance only produce stimulus-response relations, and that towards the formation of postulates we cannot There is no lack of writings which have Chomsky objects to any a priori rejection of For instance, the linguist Noam Chomsky has phenomena cannot explain verbal cognition.4 position generalized beyond that particular theories of internal structure, saying that such rejection only places unwarranted hinsays his criticism is an articulation of a drances on the development of the science on directly observable stimulus-response written several reviews of works by the

quantitative equations "will be much facilitated until psychology has reached a stage where each "to delay using [the approach of employing conceptual dimensions for the internal constructs] research. "It would be a mistake," he writes, aspects and, at least, learn carefully to distinguish different conceptual types." if we become aware of the importance of these expressed similar thoughts. He believed that physical phenomena have been, and eventually constructs of psychology such as "goals," "hope," "power fields," and "values" can be identified as conceptual dimensions just as construct designates phenomena which can be The Field psychologist Kurt Lewin has be quantified for methodological value in measured quantitatively." Working toward

create what is "a technology and not a philos-ophy of ends."7 He points out that the physical human beings have "ends," and so the behaviorist mately taken as capable of explaining the whole of human psychology.9 things, which have no ends. The development of sciences are those of "non-personal, non-human Abraham Maslow, in raising similar objecvalue-free, value-neutral, so that pure descriptiveness was possible."8 But, he says, physical sciences research, cannot be legititions to the behaviorist restrictions through model which was derived from the model of the was in fact impossible until they had become physics, astronomy, mechanics, and chemistry his writings in Humanistic psychology, has argued that it has been a modern error to

The present writer would expand upon these advances in knowledge have constantly occurred arguments to point up the fact that major

in human history partly as gradual accumulations fore, that psychologists and educators do formuphilosophies of teaching that take the internal undergoing such a process is Albert Einstein's late models of the internal in psychology, and Theory of Relativity. It is important, thereof evidence to support theories by men who in A modern example of a theory their own time had not yet means to validate their theories. into account.

A survey of some theories about intrinsic Robert Gagné's description of a motivation to motivation could begin with a reference to continue learning tasks which he names an "enjoyment of learning":

teacher or other agent external to himself. If the learner can regularly seek and find rewards for his achievement motivation, it First of all, this means that he needs to develop his own "standards" against which entire set of experiences will generalize tself. To develop such a "love of learning," the student must be progressis not unreasonable to suppose that his develop by stage during his learning of he can compare his achievements as they into a positive enjoyment of learning ively weaned from dependence on the topic or subject . . . .

A second kind of motivational development, extending over a period of years, is an increased dependence on self-generated prosecution of a learning assignment,  $^{10}$ "Instructions" and strageties in the

model of the internal in human psychology, and the concept of intrinsic motivation is central Jean Piaget has produced a more detailed

while in the process of accommodation the person creates new "schemata" or modifies existing ones to accommodate new matter. 13 Learning occurs as accommodation. 14 In the process of assimilation Piaget, who began his career as a biologist, the and development be explained as intrinsic to the learnings of people, or schemata, are the mental to it. Piaget defines the cognitive act itself as one of "assimilation" and "accommodation" of learning. 11 In the process of assimilation the meaningful for growth and development, that is, and accommodation the child or person must act, adds a principle that a learner must act rather Plaget maintains, for cognitive development to degree that motivation to physically adapt for child or person is motivated to achieve a balance or "equilibrium" between assimilation and dis-equilibrium occurs, to seek a new equilibrium by assimilating or accommodating. 16 To corollary of self-reliance Piaget very clearly Thus could motivation for intellectual growth There is motivation to act, whenever will be made clear later, these phenomena are counterparts of biological means of adapting. than merely be acted upon in order to learn. a result of intrinsic motivation because the person integrates new perceptual matter into proceed. This is true of both sensori-motor learning and the less overt action of cognition. 15 There is motivation to ant action. existing "schemata" or behavior patterns12, survival is intrinsic. 17 Also, to Gagne's input to perceive the environment in a way facilitated by group processes.

Another applicable set of constructs in the literature is John Dewey's aesthetic theory of experience. It is also a developmental model which describes intrinsic motivation in the activity of man's intellect in terms of an aesthetic quality of living, a rhythm of loss

of integration with, and recovery of union with, environment.  $^{18}$  Receptivity, Dewey contends, is concrete what surroundings are conducive to hav-Finally, so complete is Dewey's conviction about Receptivity, Dewey contends, is conditions, but that they also recognize in the and a drive for the final product of elation in overcoming and utilizing resistance.  $^{19}$  Dewey ment. What motivates the human is an intrinsic the natural order of intrinsic motivation, that generally is the "freedom of intelligence, that complete experience, needs (including intellecmotivation for "complete" experiences. In the "interact" in equal measure with the objective in experience. 20 In other words, having to do and awareness of intent. They are followed in he concludes that the freedom of most enduring acts that accumulate toward objective fulfillis to say, freedom of observation and of judgment exercised in behalf of purposes that are intrinsically worthwhile" to the individual.  $^{22}$ psychology, of which the foregoing is a model, tual ones to learn) are followed by impulsion turn by a formation of purpose, wherein attionly be aware of the general principle of the tudes of the self are informed with meaning, is convinced that the internal conditions of responsibility of educators is that they not not passive, but is a process of responsive shaping of actual experience by environing importance in education as well as in life with education particularly, "A primary ing experiences that lead to growth." $^{21}$ 

Gestalt psychologists working primarily in Europe have evolved some theoretical constructs related to the internal in learning. The Law of Pragnanz is a law of equilibrium in perception. It says that psychological organization of perceptual matter tends to form

properties of regularity, simplicity, stability over time, and the like.  $^{23}$  Because of the implicit in this, and much research constituted lem's essential nature. The human, in this view, constantly seeks equilibrium in the face thinking dependent upon discovery of the probholistic tendencies of perception and thought holistic states of awareness, in a synthetic process of discovered insight.  $^{24}_{\phantom{1}4}$ This states that a problem situation creates by observations of problem-solving behavior, gestalts or holistic groupings according to tension towards solution through insightful there has been theorized a Law of Closure. of experience by forming new gestalts or

intertwined with reality, that there is no such Rogers, have concluded that humans react to the directing need to develop oneself in the direc-Indeed, the undermining of will and decision is manner, the intrinsic motivation being to grow in an internal dimension which has been called participates in it, is conscious of it, has some relationship to it. 26 There follows from writers as Abraham Maslow, Rollo May, and Carl tion of healthy, competent, and creative functioning.  $^{25}$  The reason, in the explanation of human behavior) the principle that man becomes human only at the moment of decision.  $^{27}$ part of the neurosis of modern man, it is contended by the Humanists. <sup>28</sup> Ultimately, phenomenal world in an integrated, purposeful Humanistic psychologists, including such this (also explaining further the opposition to the idea that operant conditioning theory can be relied upon to describe the whole of this model, is that the concept of self is thing as truth to the person except as he "self-actualization." This is the inner,

man's capability to transcend the concrete situciple, whereby the whole pattern of the person's ation, to live in terms of the possible. Thus, the constant intrinsic motivation is for a new consciousness as defined by this psychology is "function," similar to the "gestalt" in prinawareness in the world changes with new experience. 29

There should be included in this discussion validity of including internal forces as concepgists, led by Kurt Lewin. Lewin's views on the a mention of related efforts by Field psycholobeen summarized above. Among the constructs he psychological force corresponding to a need can be said to have two basic results. It leads to describes are certain forces or "directed enti-The latter play "an important role in the solulearning is a change in cognitive structure for adapting needs which are parallel to biological value Lewin specifically places on the developfrom certain values (needs or motivations)."30 it. Therefore, all intellectual processes are would seem to have much in common with that of his cognitive structure in a way which corresment of quantification, which is part of Field needs in the human. The difference is in the structs the causal field, there are forces of "two types: one resulting from the structure locomotion of the individual in the direction ponds to such locomotion or which facilitates tual dimensions in research in learning have of the psychological force or to a change of of the cognitive field itself, and the other deeply affected by the goals of the individual."31 Lewin's explanation of motivation ties" which cause learning. As Lewin contion of any intellectual task. In fact, a Plaget in the sense that in both theories

psychology's impact. What is important is the contention again that intrinsic motivation must be dealt with as a powerful force in learning regardless of whether our capability for such quantification is imminent.

# Second Theoretical Principle

The second theoretical principle involved in the philosophy here outlined shall now be discussed, that is, that intrinsic motivation particularly to discover truths, concepts, and solutions to problems, is of great importance in the mental processes of the higher intellectual skills. Since this is actually a corollary principle to the first, more general one, it has to a great degree been dealt with in the previous discussion. However, such psychologists as Jerome Bruner and Robert Gagné have particularly discussed discovery itself in some detail.

Gagné has formulated a theory of eight categories of learning, or intellectual skills, which culminate hierarchically in concept, principle, and problem-solving learning. 32 He writes that to maximize the potential of the intrinsic motivation he calls "enjoyment of learning," the student needs to develop the self-generation of ideas and strategies for problem solving, as has been noted above.

Thus, he says, in the higher learning processes of problem solving, the teaching model of "guided discovery" has been found to be extremely effective in terms of both success and retention. 33 In the process of this model, 1) goals are defined, 2) questions are asked by the teacher to stimulate students' recall of certain pertinent knowledge, and 3) there is

further questioning and discussion to stimulate thinking to generate student hypotheses and sudden insights into solutions. <sup>34</sup> When knowledge is used for thinking of this sort, he adds, transfer of knowledge and building of independent learning are fostered. <sup>35</sup>

gest that guided discovery is effective and very argues that concepts are not isolated phenomena this Bruner has been supported for example in a ceptual matter. Therefore, the constant buildself-reliance, and intrinsic reinforcement, so Concept development, in Bruner's model, is the in perception and memory, but hinged with one study by E. R. Guthrie showing that discovery learning facilitates transfer. 38 and by the Though Gagne makes these points specifiaspects of the theories of Jerome Bruner sugcally with reference to problem solving, the much called for in concept development also. another in complex hypotheses about new perfacilitate transfer, retention of knowledge, highest of his learning categories, certain ing of these codes is normally discovery-oriented. Since the generic codes formed discovery learning facilitates the same. 37 Gagné and Bassler study cited by Gagné. $^{
m 39}$ formation of systems of generic codes.

## Third Theoretical Principle

All of the discussion up to this point leads logically to the third basic theoretical principle of this philosophy. If intrinsic motivation, discovery processes, and the higher intellectual skills are all intertwined in the manner indicated, it follows that

reward involved is theorized by many scholars to Teaching for self-reliant discovery is difficult learning sufficiently in a particular situation. development of individuals' intellectual skills the sensory-motor stage in Piaget's develop-mental stages 40 can discover and verbalize some truths to form concepts even if they be so ele-No matter how elementary those concepts may be, the intrinsic motivation toward, and reward of, self-discovery is theorized by many scholars to pre-operational stage of Piaget can apply logi-Also, every person who has advanced beyond the cal thought to solve some problems. Again, no acquisition of skills and facts from simple to to their highest capacities is of great imporcomplex. Every person who has advanced beyond be very powerful and of essence in human life. matter how elementary those problems and solubecause all learning situations must be placed be very powerful and of essence in human life. teacher in a more direct influence to advance teaching needs to be designed to achieve far and can be easily misunderstood and misused, mentary as to require building upon by the tions may be, the intrinsic motivation and Therefore, more than simply efficiency in learners' tance to the human condition.

# fourth Theoretical Principle

guided discovery and problem solving, which are The theoretical principle that intrinsic of group interaction is no less integral than the others in many of the already cites writings on learning. The essential relationship is clear: group settings and group dynamics of peer interaction in particular facilitate especially nurtured in productive processes fueled by intrinsic motivation and in turn motivation and discovery learning can be reinforce it for future learning.

cites by Lorge suggests that the advantage to a municated and are subject to sharpening as more exhibit the same kinds of performance trends, 43 ideas are brought forth by others in the group, A class whose atmosphere includes discussion of discovery in problem solving by citing experithan an individual solving the same problem. 42 mental evidence that group problem solving is more effective than an individual solving the Gagné concludes his discussion of guided the guided discovery type described above can Berry, and Block suggest that "the Individual group setting is that ideas must be well comsame problem. Studies Gagné cites by Taylor, student may not have the greatest number of ideas nor even the best ones."41 A study he show group problem solving is more effective and each individual benefits, where results provide the same kinds of opportunities and

of human peer interaction in learning. Part of in assimilation and accommodation to the realm Plaget carries his theory of equilibrium the process is the assimilation of the

teaching can maximize great advantages that have

been here discussed.

in contexts of knowledge that the learners are

ways, and in contexts of intrinsic worth their

meanings would have to learners; but skillful

known to possess and can recall in systematic

viewpoints and knowledge of other people, and accommodation to them. When principle Plaget holds that the learner must act upon the environment for learning indicates the need for both environmental and personal interactions in the world. All of this suggests that the group learning setting reflects, as opposed to purely individualized instruction, the more natural state of affairs. It also suggests that that teachers have an intriguing challenge to develop techniques of fostering the interactions that are naturally productive in learning.

It must be noted that the Freedom of Intelligence in John Dewey's theories discussed earlier is a hallmark of Democracy, whose principles Dewey is well known to have considered as important to education as to society generally. We Democracy is essentially a process of ordered change: a quest for information and production of new ideas. So should education arouse these in the learner. Finis all means, Dewey says, that education is "essentially a social process." In that process "quality is realized in the degree in which individuals form a community group," and the teacher is defined as the "most mature member of the group." directing processes of exchange in which all have an equal share, that is in "hiteractions and intercommunications."

One of the fundamental conclusions of Humanistic psychologists as related to their views discussed earlier is quite pertinent here. The Humanists say that peer interaction is essential for feedback in growth, self-actualization, and thus in making decisions about reality, which is what learning is.

20

Group dynamics are the producers of this kind of feedback,  $^{50}$ 

interaction are seen to be stronger, in studies, than individually made decisions.  $^{52}$  Attitudes and values have much to do with decisiveness and been said so far in this paper, because of their accompanies the acquisition of new knowledge. 51 Decision, Lewin says, is a link between motivawork in learning, in the light of all that has tion and action, a link that lectures and even Decisions that result from discussion in group Klisurich that shows a strong superiority of Kurt Lewin reports a study by Radke and group decision over a method of direct lecture in the effecting of social change that internal processes. Lewin, bringing Field discussions in themselves cannot provide. relationship to motivation and reward in theory into play, concludes that:

If one uses individual procedures, the force field which corresponds to the dependence of the individual on a valued standard acts as a resistance to change. If, however, one succeeds in changing group standards, this same force field will tend to facilitate changing the individual and will tend to stabilize the individual conduct on the new group level.

Essentially, "a planned social change may be thought of as composed of unfreezing, change of level, and freezing on the new level. In all three respects group decision has the general advantage of the group procedure."54

There has been a great deal of experimental research in group dynamics, especially since the 1940's, in the United States. Much evidence in that research has accumulated to support the theoretical positions discussed in this paper as a basis for a teaching philosophy. Some studies have already been referred to, and other pertinent evidence shall now be mentioned.

William C. Morse reports a study by Horwitz that indicates motivation "is interfused with the individual-group relationships." Identification with the group is a major controlling factor, and "thus, the diagnosis and guidance of the individual-group relationship becomes a vital concern for the teacher."

As has been said earlier, group settings have been shown to promote intuitive leaps, the formation of hypotheses in learning. This is supported by Michael Olmsted and A. Paul Hare. 56 It is probably due to the field of influences on motivation and to the richness of input available in the group, as Gagné has said in material referred to above.

Feedback processes in groups seem to act to counter perceptual distortions, also. Rodney Napier and Matti Gershenfeld report a study by Leavitt and Mueller showing "a concerted effort on the part of the participants to communicate in a manner that insures the least possible distortion between a person's intent and the message actually received by others."57 The value of an implied boost to clarity of thought in learners, through this aspect of the group, can hardly be overestimated.

There are studies showing positive transfer of group skills to other group situations.

Napler and Gershenfeld cite gtudies by Hall and Williams, Stuls, and Tolela.

A superfority of democratic cooperation to individual competitiveness for productivity has been shown. Howard L, Nixon cites a study by Deutsch, for example. Thus, Dewey's ideas in particular, and generally the entire notion of skillfully fostered processes of group interaction as an advantage, are supported.

Group settings influence decisiveness in goal seeking, as Lewin has said in material referred to above. In fact, "the centrality of goals as a group concept is such that some theorists define a group as a goal-seeking system. Group goals influence all aspects of group behavior."

### Group Significance to Plano Instruction

In seeking to effect the advantages of the group in instruction, the plano teacher can, if he meets the challenge with skill, increase. learning productivity in students for all the reasons implicit in these four theoretical principles. Even though chaining and shaping techniques for teaching are very necessary at times in performance instruction, there is no reason that they must establish an individual instruction setting as a sine qua non of applied music teaching. In fact, since music as a performing art is by its very nature allied with the group phenomenon in human experience, it would seem

products of their efforts; the implications go far beyond that. It means students inter-acting in the learning and sharing of each bit of knowledge and skill that enters into the are themselves no less the results of problemthat applied music learning is one that would technical decisions in applied music learning that comprise the building materials of final This does not, it should be added, mean that performances. Interpretive and higher order solving skills than anything else covered by Gagne's eighth category of learning. Billie development of understanding and technique students share only final or highly worked be especially nurtured by group settings. Erlings writes that:

position of "telling the answers" for lack is no other source for generating ideas or students perform provides an ideal vehicle for developing ability to make evaluations on direct information-feeding . . . . . In of additional input from a student. Both opposed to those based rather exclusively resourceful decision-making, on a one-toabove: the old "well runs dry" and there Improvisation and playing by ear are frequently relinquished in private lessons, Group dynamics and interaction generate creative playing activities, as well as mould, and shape students' learning, as inspiration . . . Listening to other often because of the difficulties cited employ teaching strategies which guide, one basis we are often forced into a with those available, it is easier to wider variety of ideas and responses; based on objective criteria . .

evaluation, based on objective criteria, 18 been cited as a major contributor to motioften much more influential with students trust and respect is maintained, students vation and acceptance of personal responteacher. Peer influence itself has long enjoy learning with and from each other, than the same criticisms offered by the sibility. If the atmosphere of mutual and group dynamics serves its best function.<sup>61</sup>

## Aspects of Group Dynamics Which Can Stimulate Learning

sought which can maximize problem solving and The first aspect that might be considered is Aspects of group interaction, then, are discovery for intrinsic reward in learning. the posture of the teacher.

stimulate problem-solving and guided discovery for intrinsic reward in learning. The first aspect that might be considered is the pos-A balance in teacher influence between direct and the indirect, is necessary to ture of the teacher.

indirect influence a teacher "1. Accepts feelthe direct and the indirect is necessary to A balance in teacher influence between covery by the students. Ned Flanders outencourages . . 3. Accepts or uses ideas pupils . . . 4. Asks questions . . . "62 stimulate problem-solving and guided disifrect influence a teacher initiates by lines these influences as follows: In ing [of students] . . 2. Praises or

7. Criticizing or justifying authority ... "63 The indirect is important in nurturtween influences of direct and indirect influ-The direct, which is important at many points information, involves such influences as givsolving of the group its direction, momentum, praising; clarifying, developing, and buildduring lessons for structuring the course of ing upon student ideas; and asking questions ing student self-confidence and independent accepting student feelings; encouraging and being critical or commanding in various degrees. There should be cyclic flow be-"5. Lecturing . . . 6. Giving directions . to stimulate thought and pertinent recall. thinking, and involves such influences as ing directions, expository lecturing, and ences of the teacher, giving the problem the lessons, summarizing, and providing and sense of purpose.

initiation. Talk by pupils which they initiate. There should be a balance in student talk be true for each student, whether or not he is ment of the students, the more they can initicontact or solicits pupil statement or struc-Expressing own ideas; initiating a new topic; ate spontaneous input of their own. This can between response and initiation. Continuing tures the situation. Freedom to express own thought, like asking thoughtful questions; going beyond the existing structure."65 The his outline, Flanders describes these as "8," greater the social and intellectual developresponse to teacher. Teacher initiates the required by rules to signal a request to be freedom to develop opinions and a line of Pupil-talk--response. Talk by pupils in ideas is limited." and "9. Pupil-talk--

ation of the students. At the highest level of made, depending upon the level of social maturthis development, as complete a spontaneity as permitted to speak. Such rules need not be is accommodated by a context of democratic cooperation is achieved.

There should be a balance between individuation and de-individuation of the students. Guy Duckworth says that

validity. Further studies . . . Indicate the vast human structure for learning is acceptance, self-esteem, independence, is diverse means of expression in the class, lessens inner restraints or fear of failfor other people, with and against whom his thinking can be tested for its A student interacting only with himself deepened when there is a more broad and ure. De-individuation is the difficult psychological needs of success, status, quickly can take on purpose and become structure to accomplish without a real group. often lacks reality. His interaction balanced with de-individuation, which one in which individuation satisfying

situations to maximize every potential for stu-The teacher's question framing in indirect head questions directed to the group, used "to basic types of question framing are: 1) overinfluence should be appropriate to particular direct questions addressed to a specific perdent problem solving and discovery. Several open\_discussion, to introduce a new phase or son, used "to call on a person for special to give everyone a chance to comment;" 2)

information or to involve someone who has not been active;" 3) relay questions referred back to another person or to the group, used "to help the leader avoid giving his own opinion, to get others involved in the discussion, or to call on someone who knows the answer;" and 4) reverse questions referred back to person who asks a question, used "to help [the] leader avoid giving [his] own opinion or to encourage [the] questioner to think for himself."

sions, and thus growth by the individual in the a growth by the group in five particular dimengroup in what he derives from peer interaction. be thoughtfully integrated so as to facilitate fifth dimension, for which growth in the other Membership: the meaning, in terms of expectations of self and of others, of being a member The culmination, in terms of learning, is the different leadership (leadership can take many in recognizing, valuing, and building learning messages with minimization of fear or reasons cooperation; 3) Feelings: growth in express-Finally all techniques together should the development Bennis have been combined to form this fivein clarity, perception, and smooth change of growth skills of all the group members; and 5) Proion by each member of feelings and feedback four seems essential, that of productivity. group should grow in the dimensions of 1) ' upon individual experiences, knowledge, and forms), functions of the members concurrent ductivity: learning itself, where problem dimensional summary of group growth. The Constructs from the theories of Warren G. with development of requisite democratic for fear; 4) Individual Differences: of the group; 2) Influence:

solving and discovery are facilitated by all the group dynamics that have developed because of the richness of responses and ideas available that one person may not have.

### Conclusion

consideration of scholars in the advancement of tion. To the contrary, plano pedagogy deserves The proliferation of philosophical inquiry plentiful bases in the scholarly literature in continued investigation. Research experiments internal cognition and its relationships with as well as any educational field the benefits rigorous definition of every learning element in terms of precise conditions and processes, education and psychology for a philosophy and does not in any way preclude such consideraof what is found in guided human interaction learning of piano playing have been done and and research efforts this century regarding group learning factors is important for the interaction of motor learning and cognitive nusical performance pedagogy. The complex learning in plano playing, if subjected to behaviors to enhance learning. There are regarding specific questions about group efforts should continue.

### Footnotes

- 1. E. Thayer Gaston. Music in Therapy. New York: The Macmillan Co., 1968, p. 24.
- 2. Ibid., p. 25.
- 3. Ibid., p. 27.

- 4. For a summary of Chomsky's arguments, see Ernest R. Hilgard and Gordon H. Bower, Theories of Learning. Englewood Cliffs, New Jersey: Prentice-Hall, pp. 245-248.
- Ernest R. Hilgard and Gordon H. Bower. Theories of Learning. Englewood Cliffs, New Jersey: Prentice-Hall, 1974, p. 246.
- 6. Kurt Lewin, Field Theory in Social Science. New York: Harper and Brothers Publishers, 1951, pp. 37-38.
- 7. Abraham Maslow. The Farther Reaches of Human Nature. New York: Penguin Books, 1971, p. 164.
- 8. Ibid., p. 164.
- 9. Ibid., p. 164.
- 10. Robert Gagné, The Conditions of Learning. New York: Holt, Rinehart and Winston, 1965, pp. 213-214.
- 11. Barry J. Wadsworth. Piaget's Theory of Cognitive Development: An Introduction for Students of Psychology and Education. New York: David McKay Co., 1971, p. 9.
- 12. Ibid., p. 14.
- 13. Ibid., p. 16.
- 14. Ibid., p. 18.
- 15. Ibid., pp. 22-23.
- 16. Ibid., p. 18.

- 17. Ibid., p. 118.
- 18. John Dewey, Art as Experience. New York: Minton, Balch, and Co., 1934, pp. 14-15.
- 19. Ibid., pp. 58-60.
- 20. John Dewey, Experience and Education. New York: Collier Books, 1938, 1963, p. 42.
- 21. Ibid., p. 40.
- 22. Ibid., p. 61.
- 23. Hilgard and Bower, p. 256.
- 24. Ibid. pp. 253-256, 274-276.
- 25. Guy R. Lefrancols, Psychology for Teaching. Belmont, California: Wadsworth Publishing Co., 1979, pp. 178-179.
- 26. Rollo May, ed. Existential Psychology. New York: Random House, 1961, p. 17.
- 27. Ibid., p. 42.
- 28. Ibid., p. 40.
- 29. Ibid., pp. 79-80.
- 30. Lewin, p. 83.
- 31. Ibid., pp. 83-84.
- 32. For a complete description of these eight categories, see Gagné, pp. 31-61, with a summary on p. 58.

- 33. Gagné, pp. 164-165.
- 34. Ibid. pp. 223-224.
- 35. Ibid., p. 256.
- 36. Lefrancois, pp. 121-123.
- 37. Ibid., pp. 131-132.
- 38. Ibid., p. 141.
- 39. Gagné, p. 165
- 40. For a detailed description of the stages in Piaget's theory of cognitive development, see Wadsworth, pp. 33-107, summar-1zed on pp. 26-27.
- 41. Gagné, p. 257.
- 42. Ibid., p. 257.
- 43. Ibid., p. 257.
- 44. Wadsworth, pp. 30-31, 122-123, and 127-128.
- 45. Ibid., p. 126.
- John Dewey, Democracy and Education: An Introduction to the Philosophy of Education. 46. For an entire book on this subject, see New York: The Macmillan Co., 1926.
- 47. Dewey, Experience and Education, p. 79.
- 48. Ibid., p. 58.

32

50. Lefrancois, p. 182.

49. Ibid., p. 58.

- 52. Ibid., p. 233.

51. Lewin, pp. 229-231.

- 53. Ibid., p. 231.
- 54. Ibid., p. 231.
- ninth Yearbook of the National Society for Relationships between Group and Individual Class Members," in The Dynamics of William C. Morse, "Diagnosing and Guiding Nelson B. Henry. Chicago: University of Instructional Groups: Sociopsychological Aspects of Teaching and Learning, Fiftythe Study of Education, Part II, ed. by Chicago Press, 1960, p. 229.
- Small Group. New York: Random House, Michael S. Olmsted and A. Paul Hare. 1978, p. 77. 56.
- Rodney W. Napier and Matti K. Gershenfeld. Groups: Theory and Experience. B Houghton Miffilm Co., 1973, p. 20.
- 58. Ibid., p. 211.
- wood Cliffs, New Jersey: Prentice-Hall, 59. Howard L. Nixon, The Small Group. 1979, pp. 295-296.
- 60. Napier and Gershenfeld, p. 122.

- 61. Billie Erlings, "Goals and Rewards:
  Developing Aesthetic Sensitivity and
  Independent Learning," The Piano
  Quarterly 26 (Spring 1978):10-11.
- Behavior. Reading, Massachusetts:
  Addison-Wesley Publishing Co., 1970,
- 63. Ibid., p. 34.
- 64. The chart in Flanders, p. 34, details these categories further.
- 65. Flanders, p. 34.
- for Plano Majors," in Teaching Plano in Classroom and Studio, ed. Helene Robinson and Richard L. Jarvis. Washington, D.C.: Music Educators National Conference, 1967, p. 140.
- 67. Group Piano Pedagogy Workshop, Question Framing Guide. Kansas City: University of Missouri, 1980.
- B. Descriptions by Warren G. Bennis, as summarized in Guy Duckworth. Materials for Graduate Study, Group and Class Piano Pedagogy. Boulder: University of Colorado, 1971.

# Bibliographical Entries

Bennis, Warren G., et al., eds. Interpersonal Dynamics: Essays and Readings on Human Interaction. Homewood, Illinois: The Dorsey Press, 1968.

Bruner, Jerome S. The Process of Education. Cambridge, Massachusetts: Harvard University Press, 1960. Cartwright, Dorwin, and Zander, Alvin, eds.

Group Dynamics: Research and Theory. New York: Harper and Row, 1960.

Dewey, John. Art as Experience. New York: Minton, Balch and Co., 1934.

Dewey, John. Democracy and Education: An Introduction to the Philosophy of Education. New York: The Macmillan Co., 1926.

Dewey, John. Experience and Education. New York: Collier Books, 1938, 1963.

Duckworth, Guy. "Group Plano Instruction for Plano Majors." In Teaching Plano in Classroom and Studio, ed. by Helene Robinson and Richard L. Jarvis. Washington, D.C.: Music Educators National Conference, 1967.

Duckworth, Guy. Materials for Graduate Study, Group and Class Piano Pedagogy. Boulder, Colorado: University of Colorado, 1971. Erlings, Billie. "Goals and Rewards: Develop-ing Aesthetic Sensitivity and Independent

The Piano Quarterly 26 (Spring Learning." 1978):4-11.

Flanders, Ned A. Analyzing Teaching Behavior. Reading, Massachusetts: Addison-Wesley Publishing Co., 1970. Gagne, Robert M. The Conditions of Learning. New York: Holt, Rinehart and Winston,

New Gaston, E. Thayer, ed. Music in Therapy. The Macmillan Co., 1968. York:

Group Piano Pedagogy Workshop, Question Framing Guide. Kansas City: University of Missouri, 1980.

search. New York: The Free Press, 1976. Hare, A. Paul. Handbook of Small Group ReHenry, Nelson B., ed. The Dynamics of Instructional Groups: Sociopsychological Aspects of Teaching and Learning. Fifty-ninth Yearbook of the National Society for the Ch1cago: University of Chicago Press, 1960. Study of Education, Part II.

Englewood Cliffs, Hilgard, Ernest R., and Bower, Gordon H. Theories of Learning. Englewood New Jersey: Prentice-Hall, 1975.

Principles of Gestalt Psychology. Harcourt, Brace and World, 1935. Koffka, Kurt. New York:

Köhler, Wolfgang. Gestalt Psychology. Liveright, 1929, 1947.

36

Belmont, California: Wadsworth Publish-Lefrancois, Guy R. Psychology for Teaching. ing Co., 1979.

New York: Harper and Brothers Publishers, Lewin, Kurt. Field Theory in Social Science. 1951.

New York: Penguin Books, The Farther Reaches of Maslow, Abraham H. Human Nature.

New York: D. Van Nostrand Co., Maslow, Abraham H. Toward a Psychology of Being. 1968. May, Rollo, ed. Existential Psychology. York: Random House, 1961.

Miles, Matthew B. Learning to Work in Groups: A Program Guide for Educational Leaders. New York: Teachers College Press, Columbia University, 1973.

Napier, Rodney W., and Gershenfeld, Matti K. Groups: Theory and Experience. Houghton Mifflin Co., 1973.

Cliffs, New Jersey: Prentice-Hall, 1979. Nixon, Howard L. The Small Group.

Olmsted, Michael S., and Hare, A. Paul. The Small Group. New York: Random House, 1978.

Dynamics and Individual Development. Penland, Patrick R., and Fine, Sara F. York: Marcel Dekker, 1974.

Phillips, Gerald M., and Erickson, Eugene C. New York: Random House, 1970. Interpersonal Dynamics in the Small Group.

The Origins of Intelligence in New York: . Internation Universities Press, 1952. Piaget, Jean. Children.

Paterson, New Jersey: Littlefield, Adams, The Psychology of Intelligence, Piaget, Jean.

The Mechanisms of Perception, Basic Books, 1969. Piaget, Jean. New York:

Current Practice, Implications and Theory Boston: Houghton, Mifflin Co., 1951. Client-Centered Therapy: Rogers, Carl.

Ohio: Charles E. Merrill Publishing Co., Rogers, Carl. Freedom to Learn. Columbus, 1979.

Oxford University Press, Group Achievement: The Experimental Evi-Stogdill, Ralph M. Individual Behavior and New York: dence.

for Students of Psychology and Education. Wadsworth, Barry J. Jean Plaget's Theory of Cognitive Development: An Introduction New York: David McKay Co., 1971.

Werthelmer, Max. Productive Thinking. Harper and Row, 1945, 1959. York:

38

THE DEVELOPMENT OF AMERICAN PUBLIC SCHOOL ELEMENTARY ORCHESTRAS TO 1950 STRING CLASSES AND

Washington University, St. Louis Janet E. Holsington

since 1950; instead it centers primarily on the widely in education until the beginning of the attempt to deal with the numerous developments earlier years of development in the first half in the following decades. This paper does not influences in America to the widespread intro-Although, instrumental music was not accepted found today in almost every public school in Implementations throughout the United States ments, can be traced from nineteenth century twentieth century, the development of class Instruction, specifically of string instruduction of class teaching in Boston through Instrumental music string classes are America, from elementary to high school. the Mainstone influence, and the various of this century.

against secular music as opposed to sacred beinfluential was the emphasis on vocal training cause of the association of instrumental music by the singing schools of Europe, and the need cally of public school instrumental music was due to several factors. As late as the nine-The relatively late development historifor the music supervisor. The precedent had been set for the vocal music in this country to learn to sing church hymns. There was no with dance music and profane activities. teenth century prejudices still existed

music, according to Edward Bailey Birge, was "due to conditions inherent in the growth of nineteenth century instrumental precedent to follow. The entrance of school instrumental democracy in education, which developed an elective system giving the pupil a free choice of a wide range of studies."1

That is based upon the theory that knowledge is discovered by application. The development of skills on instruments was in keeping with the progressive spirit."2 music in the schools . . . The philosophy factor in the establishment of instrumental instrumental music teaching in the schools. According to Robert House, the prime of pragmatism as expressed in progressive music was "the relative success of vocal education helped create the impetus for

influence from England. Charles Sollinger has teaching is widely attributed to the Maidstone music was used by three instrumental teachers, presented evidence that suggests that instrumental class teaching in America in the nine-1800 in Boston, class instruction in applied teenth century was fairly widespread, and possibly just as influential as Maidstone. The beginnings of instrumental class and in 1839, the same idea was used in Knoxville.

From 1847 until the twentieth century, schools in New York, Brooklyn, Philadelphia, methods decades before the awakening of the Camden, and Pittsburgh. This family, the Benjamins, taught string players by class family of men organized many free violin

string class teachers, from 1800-1911, are menpublic schools in the twentieth century to the possibilities of class methods in instrumental century pioneers and public school instrumenwith an instrument and a lesson book. Known music. The conditions for these nineteenth Lessons were offered free to those students tioned by name (24) and location (13) in tal teaching were essentially the same: Sollinger.4

eth century, those teachers graduating from the had experienced class teaching techniques, and Class lessons were also given in numerous ing. However, as the conservatory system fell teachers graduating from these conservatories drew from this experience in their own teachinto disfavor at the beginning of the twentinew music schools had not experienced class nineteenth century conservatories. reaching methods. About the year 1900 high school orchestras public school program, and rehearsals were held after school hours. With the orchestra memberavailable; cellos, basses, violas, Frenchhorns, Teaching instrumental technique was not a puroboes, bassoons, and kettle drums were scarce. drums, and plano were generally all that were ship of pupils from private teachers, instrumentation was usually limited and unbalanced. Early in the century, these small orchestras began to develop, especially in the Midwest. were fairly numerous and performed at school These early orchestras were not part of the pose of the supervisors who organized these assemblies, exercises, and public concerts. A few violins, flutes, clarinets, cornets, orchestras. They chose boys and girls who

devote their own time in rehearsing. It was at least fifteen years before the orchestra won a place in the school curriculum. Early orches-Charles E. Emmerich in Indianapolis, Indiana, in 1898.5 could already play well, and were willing to Merrill in Aurora, Illinois, in 1878, Jessie Clark in Wichita, Kansas, in 1896, Will tra leaders mentioned by Birge include B. W. Earhart in Richmond, Indiana, in 1898, and

inadequate instrumentation. With proceeds from and donations from citizens, basses and cellos stringed instrument, and likewise in the other violinists were persuaded to switch to a lower already looking into the matter of filling an Osbourne McConathy at Chelsea, Massachusetts, Hamlin E. Cogswell at Edinburg, Pennsylvania, As early as 1905, some supervisors were secure players for these instruments, former concerts, appropriations from school boards, were bought, secondly violas and horns, and instrument families. Pioneers mentioned by Anton H. Embs at New Albany, Indiana, Ralph Sloane at Sullivan, Indiana, and Glenn H. Woods at Oakland, California. James D. Price at Hartford, Connecticut, Birge in creating these orchestras were: finally oboes, bassoons, and timpani.

earliest grade school orchestras organized were six years or more became possible. Two of the sonnel due to commencement. To secure a more One of the major problems of these early orchestras was the constant shifting of perdeveloped. By starting grade school orchespermanent personnel, feeder orchestras were tras, a continuous orchestral experience of in New London, Connecticut, in 1896, and in

Birge, instrumental class instruction and grade Hartford, Connecticut, in 1899.7 According to time. Both grew out of the previous orchestra school orchestras developed at about the same movement.8

the high school orchestra, grade school orchestras soon developed as an independent activity. large cities followed close by: Grand Rapids, Though first conceived of as feeders for Pittsburgh, Cleveland, and Detroit made similar provisions. In 1918, George Eastman made City boasted of 40, and Oakland, California, In 1909, Los Angeles had 30, in 1915 Kansas orchestra ensembles in every school. Other Woods supervising an instrumental teaching \$10,000 of instruments in 1913, with Glenn had 29 that same year. Oakland purchased a \$15,000 donation for band and orchestra instruments in Rochester. staff for class instruction and band and

Class teaching efforts, isolated in varivisor of music in Boston, started class teachwhen the first World War brought an end to the teachers for a small affordable weekly amount, with classes held under the supervision of the publicizing this movement in the United States movement in England. Albert Mitchell, supering in 1911 after studying the English violin ous schools throughout the country, received schools. Charles Farnsworth is credited for movement, nearly a half million violins were a boost from the influence of the Maldstone about 1898. From its inception until 1914, classes. The Maidstone movement originated sold in England by the Murdoch Company. company offered instruments, music, and

at a meeting of the Music Teachers Nation Association in 1908:

I heard a concert given by the school orchestras in and about London in Alexandria Palace, where fourteen hundred and fifty youthful instrumentalists took part. It is astonishing to see what can be done under these conditions. The idea of teaching the violin in classes strikes one at first as almost impossible, but here is a movement where just this thing is done, not in school time, but outside, yet under the direction of school authorities.10

Consequently, Albert Mitchell was given a year's leave of absence, and on his return he organized after-school violin classes. These classes were admitted to the regular school day just three years later, in 1914. The Mitchell Class Method was published in 1912.

During the next decade class instruction spread to all sections of the country. "With the development of class instruction the emphasis shifted from the stimulation of individual performance to emphasis upon the ensemble. The class came to be regarded in many communities as a section of the orchestra--string, woodwind, brass, or percussion--and drilled accordingly."11

The relative importance of each of the influences leading to the rapid adoption of public school string classes after 1911 cannot be accurately measured. The Maidstone movement is often cited as the main force behind

brought a practical teaching experience to postwas responsible for the rapid popularization of a more accurate statement would reflect that it together. Many instructors were trained during teaching had been sown in the conservatory edudevelopment of the high school orchestra demon-America's instrumental class teaching; perhaps nalt of the violin classes in England accelersation of many of the early twentieth century Class teaching techniques had been the war to lead training camp ensembles, and programs. The same World War which led to a strated a need for more instrumental players strings that occurred. The seeds for class unifying power of music welded this country In use as early as 1800 in the free violin ated class progress in the United States. schools of the Benjamins and others. The and led to scattered elementary orchestra war music positions.

A close examination of one city's development gives an example of the quick inception of the grade school orchestra program. In Los Angeles in 1910 an orchestra department of elementary schools was organized. Sources stated that "to the best of our knowledge Los Angeles was the first city in the country to have an Orchestra Department in the Elementary Schools." Los Angeles had boasted of sixteen elementary orchestras in 1906-1907, formed because they "stimulated home study, secured better marching, and . . . [gave] pleasure and benefit throughout the school." Elementary students in those days marched to classes, and the live march music played after 1906 in these schools aided this. Among marches played were: "Rule Brittanica," "Men of Harlech," "Soldiers' March" from Faust, and "March" from Alda.14

Together they managed seventy-seven orchestras and more than one thousand students.  $^{17}$  Further their own instruments and within a year or two elementary orchestras for Miss Jones to assume rehearsal was held during the school day, with orchestras. 16 By 1910-1911 there were enough The guiding hand in Los Angeles for many Avenue Elementary School. Students furnished a half-time post to organize and direct these progress was reached in the early 1920's when more than three thousand students participating. By 1931 there were 227 orchestras with orchestra before and after school in Grant years was Jennie Jones, formerly a kinderposition of full-time Elementary Orchestra Supervisor, with two full-time assistants. garten teacher. In 1903 she assembled an orchestra playing marches for the student body. 15 In 1909 there were thirty such By 1913-1914 she assumed the eighteen to twenty students were in this around four thousand instrumentalists, 18 orchestras.

Instruments were loaned for five months for the the amount of school-owned instruments rose to sum of two dollars in the 1930's. After five obtained their own instruments. 19 The school From an inventory of 175 instruments in 1928. class instruction was not offered until the. Because Miss Jones was opposed to the instruments were bought from funds obtained from entertainments given for this purpose. teaching of instruments in school classes, late date of 1944 after her retirement. Instead, students took private lessons. months ninety percent of these students 387 in 1931 and to 650 in 1943.20

Miss Jones outlined her objectives for the community, To make music educational, To learn social and cultural life of school, home, and independence of thought and concentration."21 to understand and appreciate music, To teach "To serve in the elementary orchestra as:

The philosophy of the program was outlined in 1942 at the time of Miss Jones' retirement.

years we have held up its standards by havinstruments, and have taught ensemble playteacher for the technique of the individual Los Angeles is the first city to establish hands of a specialist and taught privately, elementary orchestras, and throughout the We have depended upon the outside private believe each instrument should be in the ing no class instruction in the schools. There is too much waste in mass production. 22 ing only during the orchestra period.

evident by experimentations in class lessons in However, a reversal of this philosophy is 1944. By 1947, class instruction was offered in the schools in violin, cello, and bass.

An outline of orchestra rehearsal for the An orchestra teacher worked under an orchestra school once every three weeks, presenting new instructed by a classroom teacher, if availsupervisor in charge of as many as seventyteacher who traveled from school to school. Angeles schools. The school orchestra met five schools. The supervisor visited each period 1925-1945 is possible for the Los able, or possibly by a special orchestra seventy-five to ninety minutes weekly,

teacher continued the instruction between music and techniques, while some school visits.

Various methods of starting string classes

ing notes, helping with rhythms, and being the conclusion of this short, snappy drill mechanics of seating, tuning, etc., would start the actual rehearsal with a warming generally useful. From this point on the perfod, the supervisor usually takes over The teacher after completing the routine ness in the group? From here on we probeen in the background, but during drill she will pass from stand to stand pointsome unity of thought and mental alertplanation. Thus far the supervisor has necessary substitutions for the sake of learned. Through this she will attain up number quite simple and fairly well ceed to a number needing drill and exfor the presentation of new work. The balance and presents the new number, 23 places whenever the emergency arises. supervisor and teacher will exchange supervisor passes parts, and makes

mental music spread to the schools of the entire in 1913. In 1915 Oakland reported twenty-nine to provide instrumental instruction to suppleinstruments, as in Oakland's \$10,000 addition During the Twenties and Thirties instruorchestra to this period. The first strength was in the Midwest, then in larger schools in (Los Angeles excepted) it was found necessary all sections, and finally in smaller schools. grammar school orchestras. 24 In most cities nation. Most schools can trace their first School boards began appropriating money for ment these new ensemble groups.

with cello trailing in at 12 lessons per week, string bass at 9, and viola at 6.27

83, snare drum, 64, alto horn, 26, plano, 32,

classes given was in violin by far, following the 696 for violin was cornet, 219, clarinet,

each school assigned. The largest number of

teacher taught between 74 and 205 lessons per week of all band or orchestral instruments in

teachers in Oakland in 1918, 696 classes of

Between eight elementary instrument

violin instruction were given each week.

augmented the teacher's collections by a half-time or two-thirds time salary. These classpupils, in class instruction on any instrument, especially the violin." $^{26}$ full-time teacher was employed, teaching during a half-time position was made available. Where unds were lacking, arrangements were made with pay lessons were given once a week from thirty five pupils were then needed in order to pay a reasonable amount to the teacher. Some cities school, from 8:00 to 4:15. In smaller cities, minutes to one hour in length. Where individschool hours and for an hour before and after would pay a nominal fee of ten to twenty-five were implemented in the early years of formastates that "from experience and experiments, ual lessons were given, they were limited to cents per lesson. Classes of ten to twentytion. Where funds were available, a special It has been learned that the best number to fifteen to twenty minutes. Although large assemble is three, and never more than six local private violin teachers. Each child classes were often assembled, Glenn Woods

Pupils beginning instrumental instruction in the elementary school classes pursued these for at least one year before being accepted to orchestra. All members of the string family were recommended for every string class so that the pupils grew up in a complete string section as a matter of course. The most serious problem in the larger string classes was the matter of tuning. A tuning procedure outline in 1928 by Maddy and Giddings involved all beginning string students.

Teacher sounds A on pitch pipe or piano. Pupils all sing "Do" to this tone, sustaining it steadily while they pick the A string and turn the peg until the tone of the instrument matches the voice. . . . Each pupil stops tuning as soon as his string is in tune, but still sings the tone softly and steadily until all have tuned and ceased plucking the strings. When the A strings are all tuned, the pupils call the A "Sol" and sing down to "Do" and tune the D strings in the same way . . . The teacher should tell the pupils to turn the peg until the pitch of the string is a little higher than the vocal tone and then either pull the string until it is in tune or turn the peg back a little. 28

Violin class books in use mentioned by Woods in 1920 included: Mitchell's Class Method, Municipal Loose Leaf Method, Zanger's Twelve Easy Violin Quartets, F. Herman's Forty-five Short Pieces for Three Violins, and Maddy and Giddings' Universal Teacher. 29

Once a start had been made in instrumental ally not offered at the time. Instrumentation was very unbalanced. Violins were kept on the had a fairly large orchestra in 1920 combining school orchestras in Oakland. He had a fairly first violin part as the plano duplicated the advanced technique classes, which were genersecond violin part. Violas, cellos, and bass players were rare in most schools. Mr. Woods four clarinets, four cornets, four horns, two trombones, one tuba, three drums, two oboes, one bassoon, and one melody saxophone.  $^{30}$ three cellos, one string bass, three flutes, classes, strings were accepted in the grade violins, fifteen second violins, one viola, school orchestra. This took the place of eligible players from various elementary complete instrumentation of twenty first

Rehearsals for this orchestra were held once a week, from 4:00 to 5:00 on Fridays, playing semi-classical music. The wind section was double the usual number employed to assure representation of all parts at every rehearsal. Beginning orchestra folios in use in 1920 included: Ascher's Beginner's Orchestra Folio, Ditson's in Toneland, Fox's Favorite Folio, Jenkins' Beginner's Orchestra Folio, Jenkins' Beginner's Orchestra Folio, Jenkins' Beginner's Orchestra Folio, Jenkins' Beginner's Orchestra

Maddy and Giddings suggested in 1926 that all beginners should start together in an orchestra ensemble, meeting every day. Everything needed for the progress of the pupils was to be taught in this orchestra. They stressed that this was a very high ideal, one that the school systems of the day could manage. A weekly plan was to be presented

51

so students would not miss class all five days of the week.

Monday -- string section

Tuesday -- full orchestra ensemble
Wednesday -- flexible: either wind,
string, or full ensemble
Thursday--wind section
Friday--full ensemble32

The demand for teachers often exceeded the supply. Often the kindergarten teacher was the logical person to take over the instrumental organization. This seems to have been quite common in the 1920's.33

By 1939 three plans or organization of instrumental instruction were in wide use in the country. The first and oldest method was an orchestra, consisting of students who had studied privately rehearsing after school hours. The balance and instrumentation of the orchestra were dependent on chance. The director was frequently unable to play more than one single instrument.

In the second approach there was an instructor who could play or teach all the instruments. Class instruction was given free or at a very low fee during school hours or after school. Groups of like instruments ranged in attendance from five to twenty students per class. Those making sufficient progress were usually transferred to an orchestra after three months to one year. Technical attainment was stressed, as in the first plan, as a prerequisite to entering orchestra.

In the third approach, orchestra and class instructional groups were conceived as parts of a single unit. Students, whether beginning or advanced, all played in the same organization, and special parts were written for them so that each child progressed at the level of his own development. 34

According to Dykema and Cundiff in 1939, another level of instruction had been added. "No longer are these school classes used merely as introductory classes which teach a few rudiments and then direct the children to private teachers. A number of schools are now giving classes in second, third, fourth, and even more advanced instruction."35

A direct method approach was preferred in teaching instrumental classes. In 1946 Brooks and Brown stated that

In the last few years instrumental music in elementary schools has been justified because of its own acknowledged educational values. It is now recognized as one of the important modes of expression which the child has for the great inner impulse with which he is consumed. Its educational value lies in the fact that it furnishes another opportunity for self-expression on the part of the child like song singing, it is a language. 36

The first Music Education Source Book, published in 1947, is a valuable reference in looking at the instrumental music classes of that decade. Preliminary experiences by this time were considered important to paving the way for instrumental class lessons. These

- 2. To adapt the proper instrument to each individual performer.
- To assist in determining the advisability of the pupil's continuing in instrumental work.
- 4. To develop interest to the point where the individual might desire private instruction.
- 5. To develop correct habits of ensemble playing.
- 6. To provide an opportunity for the individual as a member of a group to overcome some of the technical difficulties of playing an instrument, which might be discouraging if attempted by him alone.

A North Central Division study was made in 1945 to try to explain why interest in stringed instruments had begun to diminish during the thirties. The facts as they were faced in the forties: "string teaching has been mediocre, teacher-training institutions have been lax about insisting that undergraduates preparing for instrumental work in music education should have adequate training in the playing and teaching of string instruments . . . summed up, it could be stated that where there was good string teaching and planning there was no diminishing of interest."43

One of the biggest complaints was that the "vast majority of string classes are enrolled, instructed, and administered with the same general principles and procedures which were the vogue in 1930."44 Recommended were

materials needed for beginning orchestras which would correlate with the beginning books for strings, favoring sharp keys. The study of class stringed instruments was recommended to be started one or two years in advance of wind instruments, with more instruction done with violas, cellos, and basses. Better teacher training was requested, so that teachers could learn how to teach the combined stringed instruments.

From 1950 onward, new approaches and techniques in instrumental class teaching were used. Building from the experiences of the teachers of the first half of the twentieth century and able to profit from their successes and mistakes, was a new generation of teachers. Today, instrumental music is deeply ingrained in most of America's public schools. Hopefully it is there to stay.

#### Footnotes

- 1. Edward Bailey Birge, History of Public School Music in the United States. Washington, D.C.: MENC, 1928, p. 174.
- 2. Robert House, Instrumental Music for Today's Schools. New Jersey: Prentice-Hall, 1965, pp. 5-6.
- 3. Charles Sollinger, String Class Publications in the United States, 1851-1951.

  Detroit: Information Coordinators, Inc., 1971, p. 9.
- 4. Ibid., pp. 9-13.

5. Birge, p. 162.

6. Ibid., p. 181.

7. Ibid., p. 162.

8. Ibid., p. 181.

9. Ibid., p. 188.

10. Theodore F. Norman, Instrumental Music in Pennsylvania: Diston Co., 1939, p. 16. the Public Schools.

11. Ibid., p. 17.

Education in the Los Angeles City Schools" (Diss. University of Southern California, Francis Hall Baxter, "A History of Music 1960, p. 93.) 12.

13. Ibid., p. 81.

14. Ibid., p. 80.

15. Ibid., p. 93.

Music in American Holt, Reinhart, and Winston, Inc., 1971, New York: Education, Past and Present. 16. A. Theodore Tellstrom. p. 199.

17. Baxter, p. 94.

18. Ibid.

19. Ibid., p. 96.

28

20. Ibid.

21. Ibid., p. 98.

22. Ibid., pp. 187-188.

23. Ibid., pp. 189-190.

24. Tellstrom, p. 199.

Glenn H. Woods, Public School Orchestras and Bands. Philadelphia: Oliver Diston co., 1930, p. 52. 25.

26. Ibid., p. 57.

27. Ibid., p. 61.

mental Techniques for Orchestra and Band. Cincinnati: The Willis Music Co., 1928, Instru-28. J. E. Maddy and T. P. Giddings. p. 31 and 37.

29. Woods, pp. 194-195.

30. Ibid., p. 98.

31. Ibid., p. 33.

mental Techniques for Orchestra and Band, The Willis Music Co., 1926, Instru-32. J. E. Maddy and T. P. Giddings. Cincinnati:

33. Ibid.

34. Norman, pp. 60-61

- (Boston: Peter Dykema and Hannah Cundiff. Bichard and Co., 1939, p. 201. School Music Handbook.
- Music Edu-York: American Book Co., 1946, p. 215. cation in the Elementary Schools. New 36. Marian Brooks and Harry Brown.
- Hazel Nohavec Morgan, ed. Music Education Source Book. Chicago: MENC, 1947, p. 7. 37.
- 38. Ibid., p. 75.
- 39. Ibid., pp. 62-63.
- 40. Baxter, p. 190.
- 41. Ibid.
- 42. Morgan, p. 72.
- 43. Ibid., pp. 78-79.
- 44. Ibid., p. 79.
- 45. Ibid., pp. 80-81.

# Bibliographical Entries

- Baxter, Francis Hill. "A History of Music Education in the Los Angeles City Schools." Diss. Univ. of So. Calif., 1960.
- School Music in the United States. Washington, D.C.: Music Educators National Birge, Edward Bailey. History of Public Conference, 1928.

9

- Music Educa-New York: tion in the Elementary School. Brooks, Marian, and Brown, Harry. American Book Co., 1946.
- Chicago: H. T. Fitzsimons Co., Inc., 1936. Dasch, George, and Bennett, Aileen. Aeolian String Ensemble Method.
- Dykema, Peter, and Cundiff, Hannah. New School Music Handbook. Boston: CC. Birchard and Co., 1939.
- Schools. New Jersey: Prentice-Hall, Inc., House, Robert. Instrumental Music for Today's 1965.
- Maddy, J. E., and Giddings, T. P. Instrumental Class Teaching. Cincinnati: The Willis Music Co., 1928.
- Maddy, J. E., and Giddings, T. P. Instrumental Technique for Orchestra and Band. Cincinnati: The Willis Music Co., 1926.
- Nohavec. Music Education in Action. Chicago: Neil A. Kjos Music Co., 1954. Morgan, Russel Van Dyke, and Morgan, Hazel Nohavec.
- Morgan, Hazel Nohavec, ed. Music Education Source Book I. Chicago: MENC, 1947.
- Norman, Theodore F. Instrumental Music in the Pennsylvania: Oliver Ditson Co., 1939. Public Schools.
- School String Problems." Diss. Duquesne Rotill, Ernest D. "A Study of the Public Univ., 1950.

String Class Publications in the United States, 1851-1951. Detroit: Information Coordinators, Inc., 1974. Sollinger, Charles.

Holt, Rinehart, and Winston, Inc., 1971. Education, Past and Present. New York: Tellstrom, A. Theodore. Music in American

Woods, Glenn H. Public School Orchestras and Bands. Philadelphia: Oliver Ditson Co.,

### THE ROLE OF ETHNOMUSICOLOGY IN MUSIC EDUCATION

Music Educators National Conference in Miami, (An abridged version of a paper given at the Florida, April 1980)

Washington University, St. Louis Lewis B. Hilton (Retired)

us would like to believe is the cutting edge, as as clearly as any publication about what many of it were, of American Music Education. Obviously described twenty some university curricula which training. But of such not only dreams are made, and the catalysts for change (which are the real it borrowed heavily from such projects and curteach such a curriculum, it also sought out and at least were moving in this direction. All of Manhattanville curriculum, and various pioneer-Six years later it still seems to speak (Although this sort of ricula as the Comprehensive Music Project, the but directions for improvements are suggested, curriculum and perhaps an eight-year period of cfently powerful to help lead us away from the purposes for such a publication) may be suffi-(MENC) issued a final report in 1974 in which ing writers, especially English and Canadian, for a music teacher who would be competent to describing the pre-service preparation needed tions" towards something which might truly be "overemphasis on performance for public relathis author was privileged to take an active unrealistically optimistic for a four-year The Commission on Teacher Education the authors realized at the time that the demands to be made on such a teacher were such as Paynter, Aston and Schafer. called Music Education.

self-flagellation seems to be out of style at the moment, I do not think it is harmful to indulge in a bit of it. We still need it.)

those seated at the board, the partakers of such schools is a frill and not worth the money, time demand that music have a central and equal place deemed to be desirable directions for music edureal substance than they would get if the school It seems to me that the very center of all a variety of tastes, will be able to make their few unusually gifted vocalists or instrumentalthe opportunity to listen, perform, and compose function and the raison d'être for music in our jockey. Except for the existence of those very in the total curriculum along with mathematics, cation in the eightles, is the notion that the ists who make music an important part of their in many idioms; in short, to give them more of own educated choices of that which the musical gested that the real music teacher is the disc our curriculum consists of fun and games, perand effort to continue the program, much less the proposals, in fact the basis for what are subjected to on radio, TV, or Muzak, it would we as music teachers actually accomplish. If musics in many societies, giving our students lives, either professionally or avocationally dismiss this unfortunate condemnation of what reading, etc. We can only justify our existformances for public relations, and worst of all, merely offerings of what the student is after high school, one finds it difficult to banquet of variegated musical victuals that ence by teaching about musics, the roles of world has to offer. It has often been sugschools is to offer to our students such a only be honest to admit that music in the music curriculum did not exist.

cology to become a central part of music teacher training, not only because this discipline deals I believe, is student participation and variety, eties of music, but equally important, its study of all strategies leading to desirable changes, aesthetically, cognitively, and intellectually. Finally, then we arrive at the real purpose for snobbism, narrow mindedness, and the thin musidispelling any notions about "improvement" over historically and contemporarily with all vari-There is a need for change, and the core cal diet (to use our nutritional metaphor once superiority of "civilized" music as opposed to engenders a sociological attitude towards the more) which all too many of us offer our stutotally different meaning, if they retain any this harangue, i.e., the need for ethnomusiuses of music and aids in the abolishment of which in itself is of enormous importance in ethnomusicology is the methodology employed the centuries of music and musicians or the dents. An important aspect of training in "primitive" music. These terms take on a significance at all.

I should like to be very practical and as These facets will be (a) an introductory biblimust confine myself to two facets of this task, helpful as possible in this brief paper in giving some direction to the practicing school music teacher as well as the university music ography, and (b) a few suggestions concerning staff engaged in training music teachers. I found to be useful both in working with preethnomusicological methodology which I have university and university students.

First the bibliography. One can do no better than start with a thorough reading of

language. He does, however, go so far as to sug-It introduces the reader to the point of view of towards a universality of musical expression and that if we are, its roots will be black American both in hard cover and paperback. This book is the ethnomusicologist, to some methodology, and believes that music is not a language, properly David Reck's Music of all the Earth, available also not over the heads of literate secondary school students and is lavishly illustrated. certainly a precarious position to take, but to an enormous variety of music and uses of music of the earth. The author, of course, gest that we may be approaching something mixed with Latino rhythms and timbres. regarded, and certainly not a universal worth considering.

More specialized, but a logical next step, ings of eminent ethnomusicological practitioners The hensible to the nonspecialist. As a starter, I Music, Nettl's Music in Primitive Culture (I do is to become acquainted with some of the writwho write in a manner which is easily compre-Basis of Cultural Change, and perhaps Farnswould suggest Merriam's The Anthropology of not like the title), Barnett's Invocation: Bibliographical Entries for all of these.) worth's The Social Psychology of Music.

Both mediate grades through graduate school, includalmost any music teaching level from the internormally available to every music teacher, but applicable in a Brunerian or cyclic sense to almost no equipment other than that which is niques drawn from ethnomusicology which are are a bit primitive and simplistic, require As to a sampling of pedagogical teching non-music majors, let me cite but two.

any music. At this point, let it be made clear series of events involving perceived sound and are useful and can be applied to the study of that music in this paper is regarded as any silence in time.

cents, 1.e., 100 cents per semitone. After this (or make your own), develop and practice a notational system which is both useful in ear training and the encouragement of very discriminating has been accomplished, use standard graph paper the chromatic, major, minor, pentatonic, or any listening as well as aiding in abolishing the notion of the sanctity and/or universality of Strategy Ia. Teaching the concept of other pitch arrangement (scale).

arbitrarily assign the X axis to a time module To begin with, let us take the grid and and the Y axis to a certain number of cents (pitch).

each vertical line represents 1/2 second and the Note that in this case, the space between space between each horizontal line twenty-flve cents (1/4 tone).

Next, sing a segment of a familiar tune, let us say, America.

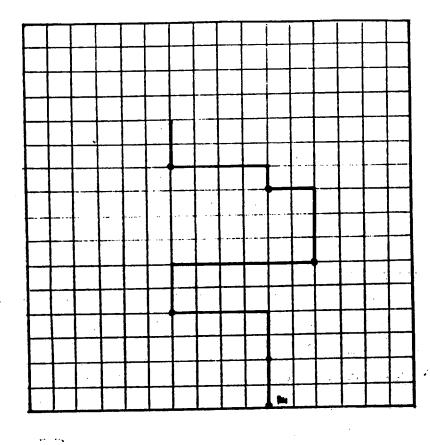


67

(Thus far we are dealing only with familiar intervals and durations (rhythms). Use a metronome set at Now write the tune on the grid. 120. Plot the dots and connect them.

illustrations a diagonal, curved or jagged line connects the pitches and refers only to a lack will refer to some kind of glissando or portalongation of a pitch. A vertical line simply A horizontal line implies only a proof glissando or portamentd. In subsequent mento. Before proceeding, it should be made clear many instrumental rehearsal rooms.) But the aim less recognizable and memorable to the human ear semitone, as heretofore mentioned, is no more or macro tones, and disadvantageous because of the (Of course an instrument such as a vibrato and portament! which are so much a part advantage and a disadvantage. It is advantageof the western tradition, particularly in vocal that the use of a grid or graph using cents is of this kind of strategy is to teach listening electronic equipment which can very accurately Stroboconn can be helpful and is available in unfamiliar intervals (nonwestern for the most ous in that the student must make an increastwenty-five cents. Furthermore, this kind of ingly educated guess in recognizing micro or part) and coming to the realization that the not an accurate substitute for sophisticated than an interval of, let us say, twenty-five in the most precise meaning of the word for show frequency levels. This is at once an ear training is invaluable in the study of So, let us proceed to what we shall cents, seventy-five cents, or one hundred inaccuracy.

#### AMER ICA



= 25 cents (1/4 tone) Horizontal space = 1/2 second Vertical space

beginning and play it back. Reverse it again to class) at 7-1/2 1.p.s. Reverse the tape to the Tape a recording of a vocal first appeared to be perfectly "straight" tones contain a certain amount of "wobble," and that between pitches. Furthermore, unless a metronome was used, the duration or rhythm will not rendition of America (sung by a member of the be exactly "accurate." Attempt to graph this there is probably some degree of portamento recorder to 1-7/8 1.p.s. Note that what at Set the speed of the tape Strategy Ib. the beginning.

We have not the time to pursue this to its first at 7-1/2, then at 1-7/8. Graph a portion say, an Ethnic Folkways recording of perhaps a North American plains Indian song. Transfer the recording to tape at 7-1/2. Play the tape notation, or even rhythmic notation, can do no ear," will also be an approximation but a much logical conclusion, and the equipment may not always be available if, for example, no tapes more than give a misleading representation of musics. It is then necessary to use, let us the music. Of course the graph, if done "by more accurate one. And the important lesson of the plece. Note that traditional pitch will be reinforced: the necessity for very intense attention when listening to really are owned by the school of various ethnic "hear" music and the variety of intervals discernible.

The possibilities are almost with X's \*\* \*\* \* \* represent nasal, raucous, This method can easily be extended to include other musical dimensions such as timbre, e.g., let a line sweet or whatever.

Glissandi and portamenti may be endless. added.

terms of importance in the compositional and performance techniques used in a particular piece of We are deliberately eschewing the use of technipedagogical strategy which, like Strategy I, has sound vs. silence and timbre. We then employ a want, e.g., 1-a-shrill, 1-b-raucous, 1-c-sweet. Let us, for a simple beginning, use loud, soft, (We can, of course, further break down timbre into as many different categories as we cal terminology.) A paradigm can then be conclassify. First we must choose the dimensions of music to which we want to pay careful heed. Loman' Cantometrin. It is for our purposes a scale for each of these, perhaps one to five, structed which might resemble the following: with one the lowest and five at the top in Strategy II is an adaptation of Alan as its purpose the training of students to listen very closely, and in this case, to

Degree of Importance (Low to High)	nport	ance (	Low to	H1gh)	
Music Dimension	1	2	3	4	5
Mostly Loud					×
Mostly Soft	×				
Toud vs. Soft		×			
Timbre Dominance					la
Sound vs. Silence		×	×		

This might describe a rock piece. Then play a variety of pieces of difference genres, including at least one other rock piece. It may be surprising to find that in using this scheme a piece from a completely different period or genre actually uses compositional techniques more similar to the first rock piece than some other piece of rock music.

These two strategies, simple as they appear, are legitimate ethnomusicological techniques, although modified and simplified. It has been my experience to find that they are practical and accomplish the purposes for which they are intended. Listening has been stressed in this paper, but the technique is equally applicable to composition and performance.

I must end by confessing that I have in no way attempted to test these strategies experimentally. I can, at this point, only rely on what my students of various levels of sophistication have said. Perhaps some one will be tempted to carry out a controlled experiment, although it would be rather difficult and take years to prove any superiority or inferiority of these techniques compared to more traditional ones in terms of lasting effect on students.

Doctoral dissertation writers--aux armes!

# Bibliographical Entries

Comprehensive Musicianship: The Hawaii Curriculum. Menlo Park, California: Addison Wesley, various dates.

72

Farnsworth, Paul. The Social Psychology of Music, 2nd ed. Ames, Iowa: Iowa State University, 1969.

Lomax, Alan. Cantometrix: A Method in Musical Anthropology. Berkeley, California: University of California, Extension Media Center, 1976.

Music Educators National Conference. Music Teacher Training: Final Report. Washington, D.C.: Music Educators National Conference, 1974.

Nettl, Bruno. Music in Primitive Cultures. Cambridge: Harvard University Press, 1956.

Paynter, John, and Peter Aston. Sound and Silence. London: Oxford University Press, 1970.

Reck, David. Music of All the Earth. New York: Scribner, c1977.

Schafer, Murray. Ear Cleaning. Ontario, BMI Canada: Don Mills, 1967.

#### ABSTRACT

### THE HORN IN THE MUSIC OF GUSTAV MAHLER

University of Missouri-Kansas City, 1980 Edward J. Bostley, D.M.A.

that of a varied and significant position in all aspects of contemporary concert music. Throughcentury. Rather, the preservation of the tone quality inherent in the natural horn was held in tages made possible on a valved instrument. The advancement in horn design with the availability increasing demands placed upon the instrument by out this evolution, though, the earliest tradi-The modern French horn enjoys a unique and potential of a chromatic horn, which the valves valved horn finally received acceptance by most provided, did not receive immediate approval by orchestral horn players by the end of the nineapproximately three hundred years, both the instrument, and the music written for it, have tions of hunting-horn style and hand-horn perthe musical community of the early nineteenth teenth century. This was precipitated by the rich heritage which can be traced to the midmuch greater esteem than the technical advanevolved from a primitive and limited role to of a valve system developed circa 1815. The seventeenth century. During this period of formance technique maintained a conspicuous influence on horn performance well into the nineteenth century in spite of mechanical the composers of that period.

microcosm of the instrument's transition into the question, circa 1880-1910, provides a convenient Mahler's music, which spans the period in

longer identified with the hunt or other stereothe guitar and mandolin. Perhaps the most sigmodern horn of the twentieth century. Increassection for identity, the horn becomes an equal scope and function of the horn was expanded in partner with the woodwinds and strings, and is Mahler's symphonies is its emergence as a solo often linked with unusual instruments such as ingly, throughout the nineteenth century, the Mahler, the orchestral horn gradually assumed orchestral music, but its traditional nature expression. No longer confined to the brass nificant aspect of the nature of the horn in typed connotations described by many music tended to remain intact. In the music of voice, an independent figure which is no new and varied functions and powers of critics and historians.

use of the "high" register of the horn, identify degree of prominence), and the frequency of the opportunity to collect data consistent with all function in the music of other composers, frequency charts catalogue those significant factors that help to define a prevailing performwhich make up an instrumental style, the cate-Mahler's use of the horn in comparison to its the works represented in the charts including selected orchestral music from the eighteenth and nineteenth centuries. The two main catemajor considerations that constitute an idiogories selected for the charts represent the ance style. Although there are many aspects To develop a basis in which to analyze gories, the frequency with which the horn actually appears in a given work (and its matic nature of the instrument.

instrumental coloration, defy specific classification in the works of Mahler. The complexity of with other instruments and instrumental families, demands on each of the instruments, and likewise Other aspects such as complexity of a given in a requirement that each instrument is pushed the emotional content of his music is reflected beyond its traditionally idiomatic limitations, wide intervals, etc.), the linkage of the horn Mahler's orchestrational technique places new horn passage (frequency of sixteenths, tempo, and the role of dynamics and other means of

It is the purpose of this study to trace the nature and function of the horn in the works of Mahler in an attempt to identify those aspects of change and expansion which mark the growth of the horn during that era.

#### ABSTRACT

OF THREE SELECTED TWENTIETH-CENTURY ASPECTS OF THE COMPOSITIONAL STYLES AMERICAN COMPOSERS OF CHORAL MUSIC: ALAN HOVHANESSS, RON NELSON, AND DANIEL PINKHAM

University of Missouri-Kansas City, 1978 Dennis K. Cox, D.M.A.

The purpose of this study is to compare and are significant as important representatives of composers were selected primarily because they twentieth-century American choral composition. contrast salient aspects of the compositional Both Hovhaness and Nelson have utilized Far Hovhaness, Ron Nelson, and Daniel Pinkham. styles of selected choral works of Alan

addition, each composer writes in a style characorientation of each composer represents an impor-Eastern compositional devices in their works. terized by eclectic diversity. This eclectic tant similarity between them and serves as focal point of the research.

portion is devoted to a more detailed analysis of first three chapters is organized into two parts. works from both general and specific viewpoints. The investigation concerns each composer's The first part contains a general discussion of the important stylistic characteristics of one composer as represented by an investigation of each composer's style as reflected by one sigseveral of his significant works. The second In order to accomplish this end, each of the nificant major composition.

charts of stylistic comparisons. The comparison comparisons include the areas of preferred texchorus, instrumentation, unified vs. concertato charts contain information relating to twentyintent of music, influences, and philosophy of one components of musical composition. These strata of sound, balance of parts, economy of research data, three questionnaires were sent contrapuntal design, form, sonority, texture, tual sources, treatment of rhythm and tempo, parameters of dynamics, manner of utilizing treatment, consistency of writing, original composition. As an aid in the gathering of Chapter four contains conclusions and melodic construction, harmonic vocabulary, material, development, idiomatic writing, to the composers.

The findings support the hypothesis that Hovhaness, Nelson, and Pinkham share common

many forms of the Baroque and Classical periods. reveal significant differences. Howhaness and Nelson incorporate Far Eastern materials into searches for novel sonorities by revitalizing choral composition. In their selection of a tional devices, however, the three composers wide variety of twentieth-century composiorientations in their eclectic approach to their compositional styles while Pinkham

#### ABSTRACT

A STUDY OF STYLISTIC CHARACTERISTICS IN SELECTED MAJOR CHORAL WORKS OF NORMAND LOCKWOOD

University of Missouri-Kansas City, 1980 Tony M. Davis, D.M.A.

The purpose of this study is to discover and Normand Lockwood which would be beneficial to the composer. They also represent a significant porscores for performance. These works were chosen contribution to this genre by a living American may be found in selected major choral works of for study because they represent a significant identify those stylistic characteristics which conductor in interpreting and preparing these tion of Lockwood's choral writing.

ences on his writing. Stylistic characteristics comments by the composer about the early influmeter, text, texture, and performance practice. The investigation analyzes the works from both general and specific viewpoints. A brief biographical outline of Lockwood is given with of vocal writing, melody, harmony, rhythm and The characteristics analyzed in each chapter

composer concerning aspects of his choral writing have been conducted as an important part of studied, a list of other choral works by Lockthis study. This information is contained in the document. An annotated list of the works wood, and a list of publishers are contained specifically. Detailed interviews with the are used to illustrate the characteristics are discussed and examples from the works in appendices at the end of the document.

examined. Therefore, certain stylistic characidentified in the study, other characteristics Lockwood. Although some works are unique in analyzed is consistent throughout the works teristics may be identified and ascribed to Lockwood's approach to the musical elements The study supports the hypothesis that their approach to specific characteristics are common in all of the works.

illustration, and expression in preparing and tance of the text, proper accompaniment, text Conductors should be aware of the imporperforming these works. Lockwood's specific performance indications in the scores should also be carefully observed.

#### ABSTRACT

THE CHORAL MUSIC OF RANDALL THOMPSON, AN AMERICAN ECLECTIC

University of Missouri-Kansas City, 1979 Byron W. McGilvray, D.M.A.

This thesis was conducted to provide a study of the choral music of the American

composer Randall Thompson, and to determine how The material that does exist is usually limited very important place in American choral music, enced his choral output. It was considered a significant study because Thompson occupies a and because little written material is availboth musical and extra-musical forces influable about either the composer or his music. to coverage of a single composition.

incidental pieces were not covered in the narraanalysis of the major choral works. All of the composition, texts, and teaching, the influence modal and tonal counterpoint and American music This thesis, by necessity, was limited to investigation of his philosophies on music and short biographical sketch of the composer, an certain areas of study. The study included: tive because there are no discernible differchoral music was thoroughly studied, but the had on his compositions, and a descriptive ences in style between them and the larger

most of them primary. Extensive personal interof performances of his works, unpublished texts of speeches the composer delivered, articles in Written materials by and about the composer and his music were studied: these included reviews journals, and entries in dictionaries and other books. In addition to the choral music, all of Additional telephone conversations and corres-Material was gathered from many sources, Personal interviews and views were conducted with Randall Thompson. the instrumental music and solo songs were colleagues and students added to the data. correspondence with some of Thompson's pondence were used.

His compositions are for American audiences, use American texts, and are influenced by American his compositions, it must be concluded that he is an eclectic. However, his writing style is It was concluded that Randall Thompson is sounds. This characteristic is by design, not musical language was established early and has 11fe. Because of the variety of influence on changed little, if any, during his productive basically a nationalistic American composer. by accident. He is not an innovator. His distinctive and individual, and his music enjoys wide appeal.

#### ABSTRACT

A COMPARISON OF TWO APPROACHES OF TEACHING BRASS INSTRUMENTS TO ELEMENTARY SCHOOL CHILDREN

Washington University, St. Louis John J. Milak

ing Method was based on the supposition that the learning required by the students on the subject determines the type of learning required by the semester in length, had similar goals, and were matter, and the Subject Matter Method was based set forth by Robert Gagné. The Imposed Learninstrumental students. Both methods were one The purpose of this study was to compare two instructional methods for beginning brass structured according to the types of learning instructional designer imposes the type of on the supposition that the subject matter students.

of practice and to the methodology and materials The methods differed according to the type

beginning from a one-line staff and progressing rhythmic notation beginning with beat signs and vised practice, introduction to pitch notation, used to introduce pitch and rhythmic notation. grouping and progressing to traditional rhythmic notation. The Subject Matter Method advocated unsupervised practice and introduc-The Imposed Learning Method advocated supertion to pitch and rhythmic notation through to a five-line staff, and introduction to traditional techniques.

music achievement test was administered before of mixed trumpet and trombone students in the The methods were taught to eight classes and after the methods, and a performance test results of these measurements were tested for statistical significance with two Analysis of was administered after the treatments. The Variance designs and a correlation analysis. fourth and fifth grades at two schools.

independent of IQ and class rank. The factor of and was independent of school effects, previous music performance was influenced by the methods The results of the analysis indicated that levels and in both schools. The factors associated with the pedagogical differences within which received the Subject Matter Method. The methods produced similar results in both grade there was a significant difference at the .05 influenced by the methods and schools and was level of confidence between both the achievebecause of the methods, and that the classes scored significantly higher than the classes scores. The factor of music achievement was related to previous knowledge of music, but ment and performance levels of the students the methods were not measurable in the test which received the Imposed Learning Method

musical knowledge, IQ, and class rank.

another was not the most important conclusion of possible to construct teaching strategies based on sets of interrelated variables which have a significant effect on the learner. Hopefully, those developed and tested in this dissertation Research involved development of methodology in music education development of attitudes, cognitive skills, and In summary, there is a need for a continueffective and efficient ways of teaching music. with teaching approaches and theories such as including testing and retesting new approaches music educators with useful information conjust beginning to understand and untangle the Research in music education is open-ended and has many avenues to explore. Researchers are world of music in the classroom and provide and theories to provide music educators with attempt to move research closer to the real finding that one method proved superior to this conclusion will further research and and serve as a model for future research. teaching-learning process which effect the this dissertation, but rather that it is ous process of research in music education complex relationships of variable in the cerning the teaching-learning process. psychomotor skills in music.

#### ABSTRACT

AN APPLICATION OF THE PRINCIPLES OF CARL ROGERS AND JEROME BRUNER TO A MUSIC METHODS COURSE FOR ELEMENTARY EDUCATION MAJORS Mary Ann Mulligan, Ph.D., Music Education Fontbonne College, St. Louis

The purpose of this study was to determine the characteristics of a music methods course for classroom teachers based on the theories of Carl Rogers and Jerome Bruner. Answers were sought to the following questions: (1) What are basic principles of the theories of Rogers and Bruner? (2) What are the objectives of a music methods course for classroom teachers? and (3) What are the distinguishing features of a course based on these principles?

The basic principles of Rogers and Bruner were determined by an examination of their writings pertaining to education. The principles were synthesized according to those which guided the acquisition of knowledge and skills, and those which guided the acquisition of attitudes. The principles adopted for the purposes of the course were:

A process-centered approach is the most effective approach to a subject.

A subject can be converted into a form appropriate to the given level of develop-ment and understanding of the learner.

The subject must have meaning for the learner and should provide its own records.

The facilitation of meaningful learning depends upon the trusting interpersonal relationship between the teacher and the

The objectives of the course were determined by adopting the recommendations of the Teacher Education Commission of the Music Educators National Conference. The musical behaviors recommended for classroom teachers were: skills

in making sounds, organizing sounds, hearing sounds, and teaching.

The principles were applied to a course being taught at Georgia State University during the 1972-73 term. The course was revised after each quarter in order to meet better the objectives and follow the principles. Most of the alterations were attempts to provide a climate of greater freedom through provision for more individualization and independent study.

The distinguishing feature of the course thus taught was that it was student-centered, with the teacher assuming the role of facilitator. Grades were minimized and students pursued self-chosen goals, studying independently in an open-informal laboratory setting. The students were given considerable opportunities to deal directly with music and with teaching in order to grasp the structure of the discipline, while at the same time they were allowed to trust their own feelings and direct their own learning.

The study was of an exploratory nature and was not designed to provide empirical data with traditional courses. However, an effort was made to obtain informally the collective subjective opinions of the participating students. Conclusions were based on these and on the subjective observations of the instructor. The course was considered as effective in reaching the objectives as any in the past experience of the investigator. The attitudes of the students were more positive toward the discipline of music and toward teaching music than the attitudes of students in previous courses. The

final proof of the success will be found in the classrooms of the students involved when they enter the teaching profession. Present results suggest a positive musical future in those classrooms.

It is recommended that further revisions in the course include more observations of successful classroom teachers and the provision of more strategies which especially emphasize the making of musical decisions, the place of creativity with sound, and step-by-step explanations which guide the student more directly to the desired outcomes. It is also recommended that methods be devised and employed which would obtain objective evidence concerning the attainment of course objectives, such as longitudinal studies, case studies and documentaries, and controlled studies determining more or less effectiveness of the course.

#### ABSTRACT

ITALIAN SOLO AND CHAMBER MUSIC FOR THE CLARINET--1900-1973: AN ANNOTATED BIBLIOGRAPHY Orval B. Oleson, D.M.A. University of Missouri-Kansas City, 1980 The purpose of this dissertation was to prepare an annotated bibliography of solo and chamber music for the clarinet written by Italian composers between the years 1900 to 1973. Only compositions for instruments are contained in this bibliography. These include pieces for unaccompanied clarinet, duos, trios, etc., up to and including octets. The goal of

the author was to provide clarinet instructors and students, as well as performers, with a source of information concerning a virtually unknown and unplayed portion of the repertoire.

The author compiled an extensive list of appropriate compositions and set about the task of finding and studying the music. Many items were located at the Indiana School of Music Library, and an even greater number were found in the Library of Congress in Washington, D.C.

The dissertation is in two parts. The first lates, (3) title of the composition, (4) instrupart is an explanation of the purpose, organiza-(6) dedication, if one exists, (7) location and name of the publisher, (8) date of publication, composer, (13) description of the composition, mentation, (5) date of composition, if known, tion and scope of the study. The second part oibliographic entry consists of the following (9) range of the clarinet part or parts, (10) indications, (12) biographical sketch of the (1) composer's name, (2) composer's duration, (11) movement titles and/or tempo compositional techniques, and possible perconsists of the annotated bibliography. formance problems.

Four appendices are included at the close of the dissertation: one, an alphabetical list of the compositions; two, the compositions listed according to instrumentation; three, a chronological list of the compositions; and four, a list of those works not included in present clarinet repertory listings.

The bibliography consists of ninety-six compositions representing the work of sixty

different Italian composers. Forty-six of these performers, and students to expand the current repertory by including these Italian works in repertory listings. The intent of this dissertation is to enable clarinet instructors, works are not mentioned in present clarinet concerts and recitals,

### Table of Contents

Chapter

I. THE PURPOSE, ORGANIZATION, AND SCOPE OF THE STUDY

The Purpose of the Study

Organization and Scope of the Study

II. ANNOTATED BIBLIOGRAPHY

Albisi, Abelardo: Divertimento (No.

Albisi, Abelardo: Miniature Suite No. Albisi, Abelardo: Divertimento (No.

Solo di Concerto Albisi, Abelardo:

Bartolozzi, Bruno: Concertazioni

Quattro

Berio, Luciano: Concertino

Berio, Luciano: Opus Number Zoo

Bettinelli, Bruno: Studio da Concerto

Tre Invenzioni Bettinelli, Bruno:

Bortolotti, Mauro: Parentesis

Studi Bortolotti, Mauro:

Bossi, Renzo: Tema Variato, Op. 10a

Brero, Giulio Cesare: Divertimento

Brescia, Domenico: Second Suite Brescia, Domenico: Suite

"Rhapsodic"

Bucchi, Valentino: Concerto

Concertino, Busoni, Ferruccio:

Due Danze Busonf, Ferruccio: Elegie Camillucci, Guido:

Carabella, Ezio: Suite

88

Casagrande, Allessandro: Frasi per Sette Strumenti

Casella, Alfredo: Serenata

Casella, Alfredo: Sinfonia

Concertino Sonata, Castelnuovo-Tedesco, Mario: Castelnuovo-Tedesco, Mario:

Castiglioni, Niccolo: Tropi

Cattolica, Gilfredo: Duo

Clement1, Aldo: Tre Piccoli Pezzi

Clementi, Aldo: Triplum

Corghi, Azio: Jeux Corghi, Azio: Musica 3

Coscia, Silvio: Septet for Winds

D'Ambrosi, Dante: Introduzione e Allegro Donatoni, Franco: Etwas Ruhiger im

Ausdruck

Donatoni, Franco: For Grilly,

Improvvisazione per

Fellegara, Vittorio: Ottetto

ferrari, Giorgio: Improvvisazioni

Concertanti

Ferrari, Giorgio: Improvvisazioni per

Raffaele

Frugatta, Gluseppe: Sulte, Op. 44, Gabucci, Agostino: Aria e Scherzo

Sabucci, Agostino: Sixty Divertimenti

Garguilo, Terenzio: Serenata

Gentilucci, Armando: Concerto per Cile, 1973 Gentilucci, Armando:

Cinque Strumenti

Gentilucci, Armando: "Diagramma"

Gentilucci, Armando: Epitaffio per Gentilucci, Armando: Diario II

Cesare Pavese

Ghedini, Giorgio Frederico: Concerto

Cinque

Slampieri, Alamiro: Fantasia

Glampieri, Alamiro: Sei Capricci

Mannino, Franco: Les Feuilles d'Automne, orenzo, Leonardo de: Due Divertimenti, Mannino, Franco: Mini Quintett, Op. 74 Margola, Franco: Tre Studi da Concerto Napoli, Carlo: Hommages a Prokokieff-a .orenzo, Leonardo de: Pizzica-Pizzica, Malipiero, Gian Francesco: Dialoghi IV orenzo, Leonardo de: Trio Eccentrico, Malipiero, Riccardo: Musica da Camera Lorenzo, Leonardo de: Trio Romantico, Montanari, Nunzio: Cinque Invenzioni Prosperi, Carlo: Quattro Invenzioni Malipiero, Gian Francesco: Sonata Manzoni, Giacomo: Musica Notturna Petrassi, Goffredo: Tre per Sette Wielsen, Riccardo: Sette Aforismi Quattro Invenzioni Grossi, Pietro: Composizione No. Malipiero, Riccardo: Giber Folia Renzi, Armando: Cinque Bagatelle Procaccini, Teresa: Clown Music Quaranta, Felice: Trattenimento Razzi, Fausto: Invenzione a Tre orenzo, Leonardo de: I Quattro Lorenzo, Leonardo de: Suite Micozzi, Antonio: Notturno Pilati, Mario: Inquietude Napoli, Carlo: Momenti Mythologigue, Op. 38 Stravinsky-ad Orff per 5 Instrumenti Virtuosi, Op. 80 Razzi, Fausto: Musicale Op. 78

Scelsi, Giacinto: Preghiera per un ombra Vlad, Roman: Improvvisazione su di una Zanaboni, Giuseppe: Piccola Suite per Roto, Nino: Petite Offrande Musicale Santoliquido, Francesco: Due Pezzi Setaccioli, Giacomo: Sonata in mi Rieti, Vittorio: Sonata a Cinque Veretti, Antonio: Divertimento Tocchi, Gian Luca: Arlecchino Rieti, Vittorio: Silografie Scelsi, Giacinto: Tre Pezzi Veretti, Antonio: Fantasia Scelsi, Giacinto: KHO-LO Togni, Camillo: Aubade Turchi, Guido: Trio per Cinque Strumenti Scelsi, Giacinto: KYA bemolle, Op. 31 Tre Fiati melodia

Ricci-Signorini, Antonio: Fantasia

Rieti, Vittorio: Quintet

Burlesca

ALPHABETICAL LIST OF COMPOSITIONS APPENDIX A:

COMPOSITIONS LISTED ACCORDING TO INSTRUMENTATION APPENDIX B.

CHRONOLOGICAL LIST OF COMPOSITIONS COMPOSITIONS NOT INCLUDED IN PRESENT REPERTORY LISTINGS APPENDIX C. APPENDIX D.

BIBLIOGRAPHY

VITA

#### ABSTRACT

#### THE DEVELOPMENT OF COMPRENSIVE MUSICIANSHIP IN THE SECONDARY INSTRUMENTAL MUSIC PROGRAM

Washington University, St. Louis Elvis O. Spearman

The purpose of this study is to further the development of comprehensive musicianship in the sequence of musical experiences which emphasize secondary instrumental music program through a rather than the continuation of traditional the integration of the dimensions of music instrumental music practices.

Since the 1950's there has been an attempt knowledge. This development has been supported by some administrators, teachers, students, and parents interested in improving the quality of on the part of concerned music educators and curriculum specialists to develop curricula which focused on musical understanding and music programs in their schools.

the future course of instrumental music pedagogy. Along with this development in what is commonly called "Comprehensive Musicianship" is an instruction which will bring about a change in attempt to de-emphasize excessive public performances by high school bands, choirs, and orchestras; and to develop a program of

the theories of Piaget and Bruner as they relate The first chapter of this study deals with to stages of learning and learning readiness.

92

Plaget is concerned with the nature of knowledge appear to suggest several concepts which can be theories on structure, intuition, and readiness and the conceptualization of the interaction between objects and the learner. Bruner's used in the development of music curricula.

In chapter two, the curriculum principles of Ralph Tyler and Philip Phenix are cited because of their relevance to curriculum construction.

tion in the United States is discussed in chapimprovement of music pedagogy in music programs A brief summary of conferences, projects, and symposia effecting change in music educater three along with recommendations for the In the schools of America.

explanation of the role each dimension plays in In chapter four, a hierarchy of the dimensions of music is established with a brief the temporal process of sound and silence.

Chapter four deals with the dimensions of aware of the interaction that takes place in music which enable students to become more the music(s) of all cultures and periods.

five are objectives and strategies which can be used to alter the development of comprehensive In the concluding chapter of this study, western music from the Baroque period to the the author analyzes several musical compositwentieth century. Also included in chapter musicianship in the secondary instrumental tions which cover the stylistic traits of music program.

#### ABSTRACT

### POETIC IMAGERY IN THE SONGS OF BENJAMIN LEES

University of Missouri-Kansas City, 1980 Shirley A. Westwood, D.M.A.

echniques used by composer Benjamin Lees in the pulling out and exposing. These techniques were identified as "motifs" and traced throughout the discovered to be an element for the reproduction while atmosphere recreated in music the prevail-Songs of the Night, Three Songs, Cyprian Songs and "Staves." Several compositional techniques Richard Nickson. The song cycles analyzed were effect upon the poetic concept. Further examination revealed how these techniques influenced songs as were the poetic motifs. Symbolism was ing mood of the poetry. Lees' self-defined use of the sound of the text or the poetic concept, identified in the songs and examined for their Recurring musical and rhythmical patterns were the elements of rhythm and meter, pitch, duraidentify and define the several compositional The primary purpose of the study was to which are defined as significant by the comtion, timbre and texture, and dynamic level. process of composing music to the poetry of poser were spin, expansion, driving motion, of "surrealistic elements" was observed and discussed.

telephone conversations were held with both the was examined by the poet and composer for con-The songs were analyzed and the analysis firmation. Personal interviews and numerous composer and the poet. Articles about both

94

95

Examination of the scores and poetry included formances and publications were researched. the evaluation of taped performances of all artists and newspaper reviews of their perthe song cycles. The results of this study show that a relation of the texts and an enhancing of the mood tionship does exist between the poetic concept reveal a concern for the faithful representaof the poetry. A unique relationship does compositional techniques employed by Lees and the musical realization of the text. exist between the two artists.

poetry and this composer-poet relationship pro-The opportunity to discuss the music and vided the signal incentive for the study.

# MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

Volume IV Number 5

1981

Published by the

Missouri Music

**Educators Association** 

#### MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

#### Published by the Missouri Music Educators Association

Volume	IV	1981	Numb	er S
I. A	Edward J. Bost	Evolution and he Horn Style ley, University ina-Chapel Hill	• •	7
a A	nd Teacher Erro ttentiveness:	High School Band ol Chorus r n, Kansas		29
III. A	ent Abilities	Frequency Discerr 	1-	41
S 1 E	ditorial Perspe chool Hymnals P 859 and 1898 wh ducational Phil ractice Mary Voogt			52
а	nd Liking Music euristic Method	ehan, Washington		73

VI.

88	91	92	76
•	•	•	•
•	•	•	•
E. A Comparison of Elementary General Music Education Prac- tices and Rationale for the Inclusion of Musical Variety in Aesthetic Education toward Broadening Musical Taste Michael Benjamin Roberts, Washington University in St. Louis	F. Non-Participation of Freshmen and Senior Boys in High School Choirs	G. A Pilot Study Comparing Group and Individualized Instruction for Training of Vocal Pitch Matching Accuracy Ellen K. Marx, University of Missouri-Kansas City	H. A Study of Selected Cultural, Sociological, and Psycho- logical Factors in the Music Education of Mexican-American Children
	•		

### MISSOURI JOURNAL OF RESEARCH IN MUSIC EDUCATION

Jack R. Stephenson Editor:

University of Missouri-Kansas City Conservatory of Music

Kansas City, Missouri 64110

relephone: 816-363-4300

## Editorial Committee:

Washington University Department of Music Tilford Brooks

St. Louis, Missouri

Telephone: 314-889-5581

June Jetter

University of Missouri-Kansas City Conservatory of Music

Kansas City, Missouri 64110

Telephone: 816-363-4300

Frank Koch

Department of Music

Central Missouri State University

Warrensburg, Missouri 64093

816-429-4530 Telephone:

F. Bion McCurry

2548 Sunset Terrace

Springfield, Missouri 65804 Telephone: 417-883-3297

James Middleton

Department of Music

University of Missouri-Columbia

Telephone: 314-882-3238 Columbia, Missouri 65201

465 Northwoods Mill Road St. Louis, Missouri 630 Telephone: 314-851-8100 Parkway Public Schools Director of Music Douglas Turpin

Fred Willman

University of Missouri-St. Louis 8001 Natural Bridge Road Department of Music

63121 St. Louis, Missouri

314-553-5980 Telephone:

# Submitting Manuscripts:

- 1. Contributions to this journal should be sent to the editor.
- scientific nature which report the results The editorial committee welcomes contributions of a philosophical, historical, or music in the educational institutions of of research pertinent to instruction in Missouri.
- Articles should be typewritten with double spacing on 8-1/2 x 11 paper.
  - cal Association (2nd ed., 1974), which can be purchased from the American Psychologication Manual of the American Psychologi-Manuscript style should follow the Publical Association, 1200 Seventeenth St., Washington, D.C. 20036.
    - editorial committee cannot be responsible 5. All contributors are advised to keep a copy of any manuscript submitted. or loss of manuscripts.

S

Securing Copies:

1. Request for the current and back issues should be made directly to the editor.

\$2.00 2. Costs including mailing: Current issue:

Back issue:

#### PREFACE

Educators Association, is devoted to the needs and interests of teachers of music in Missouri and the nation. This issue, Volume IV, Number The Missouri Journal of Research in Music Education, published by the Missouri Music 5, is the twentieth.

balance among music theory, history, philosophy, We strive for a reasonable again be sent to the editor concerning the con-The members of the editorial committee are grateful to those readers who have written suggestions concerning the content of past issues and request that criticisms and suggestions aesthetics, and pedagogy. tent of this issue.

Missouri Music Educators Association for their continue to publish the Missouri Journal of We express our deep gratitude to the financial support to make it possible to Research in Music Education.

The Editorial Board

### DEVELOPMENT OF THE HORN STYLE\* A SURVEY OF THE EVOLUTION AND

The University of North Carolina at Chapel Hill Edward J. Bostley

a concert instrument by the first decade of the into Bohemia in 1680. It gained acceptance as ment. Count Spork Introduced the hunting-horn larity in the unique evolution of this instrucentury, when the ancestor of the modern horn significant developments in performance technique and horn style have occurred with regueighteenth century while remaining a cor-defirst emerged in France as part of the hunt, chasse in France well into the new century. Since the middle of the seventeenth

horn. Although the horn was a regular member of first decade of the nineteenth century, that its the rise and proliferation of the great soloists the orchestra throughout the eighteenth century, circa 1750, the instrument gained in technical and expressive potential. The 1780's witnessed of the instrument with the concertos of Mozart as the most enduring solo literature for the it was in the music of Beethoven, during the With the development of the hand-horn, significance and expressive power as an orchestral instrument began to emerge.

this important invention and continued to treat the instrument as a natural horn throughout the valves were added to the natural horn. Ironi-By the second decade of the nineteenth century cally, both performers and composers ignored greater part of the nineteenth century, even

tation at the University of Missouri-Kansas City. \* Based on Edward J. Bostley's doctoral disser-

abandoned, but not necessarily the musical style their contemporaries forced a change not only in though in the 1850's Wagner and other composers performance technique but also on the function century the traditional performance technique of the natural instrument. During the era of 1880-1910, the music of Strauss, Mahler, and were beginning to force the adoption of the three-valve horn. Toward the end of the of the long established hand-horn had been and style of the horn in the orchestra.

Atonality placed new demands on the performer in long development, the original influence of the the many changes that have occurred during this nunt and the hunting-horn music has remained in Throughout the twentieth century the music In spite of from a technical standpoint of performance and evidence albeit of a somewhat ambiguous nature Since the for horn greatly increased in difficulty both as a function within the orchestral ensemble. 1950's unusual extra-musical techniques have been added to the horn repertoire. the second quarter of the century. in much of the contemporary music.

### and the Rise of the Orchestral Horn The Hunting-Horn Era

capable of producing only specific notes found in Thus an instrument of the required length to produce the fundamental pitch of C would provide the seventeenth century as an instrument of the hunt, and throughout its unique history, the evolution Since the emergence of the horn in the midof a musical style and the development of a perlimitations of the instrument and to the limitaformance technique were directly subject to the tions of the performer. A long coil of tubing with fixed length, the early cor-de-chasse was the overtone series in which it was pitched.

performer with the series of pitches shown in Figure 1 (Note 1).



Figure 1. Pitches available to the cor-de-chasse.

produced the melodic progressions of  $\frac{c}{c}$ ,  $\frac{d}{d}$ , and  $\frac{d}{d}$ ,  $\frac{d}{d}$  and  $\frac{d}{d}$ ,  $\frac{d}{d}$ , and  $\frac{d}{d}$ ,  $\frac{d}{d}$ , and  $\frac{d}{d}$ ,  $\frac{d}{d}$ performance difficulties encountered by blowing rigors of riding the hunt. In addition, extant well as the arpeggiated melodic contour and the manship of both mouthpiece and instrument. It ily unique, the hunting-horn style maintained a was limited to the more comfortable area of c' on an instrument while actually engaged in the century indicate a certain crudeness of craftdistinctly uniform nature typified by the preof the style of the early horn music were the fifths resulted when two horns simultaneously is understandable that the performance range instruments dating from the late seventeenth the hunt. Although each signal was necessarprimarily comprised of signals and calls siguniquely distinctive harmonic progression of "horn-fifths." Limited to the few available nifying different aspects of the progress of dominance of 6/8 meter and triple rhythm as pitches of the overtone series, these horn-The music for the early instrument was and g'', and the music remained simple.

unique and evocative, and as the popularity of Yet in its simplicity, the music was

hunt was as important as any other aspect of the the end of the seventeenth century the nature of various courts of the aristocracy modeled their own hunting pageantry after Count Spork's elabthe hunt, began to acquire a certain degree of nunt, and as such became a subject of comparative scrutiny from one livery to another. By horn playing, while still mainly relegated to pride in the quality and elaborateness of the Spork imported a pair of hunting-horns to his estate in Bohemia, and had two members of his orate hunt, and "his Jagerchor, through its legendary perfection, stimulated the development of the German hunting-song epitomized in local hunting forays. The horn music of the the hunt increased, the various estates took degree of eventual refinement was such that refinement. In 1680 the aristocrat Count livery trained to play the instruments. Freischutz" (Fitzpatrick, 1970, p. 12). the 'Hunting Chorus' of Weber's Der

an instance may be found as early as 1639 in the From these primitive beginnings evolved the style of horn playing that has had such a lasting influence on horn music and performance for hall. Early use of the horns in concert music horn style should pervade music of the concert that such a strong development of the hunting-Such opera Le Nozze di Teti e di peleo of Cavalli. nearly three centuries. It was only natural was of an evocative nature evidenced by the inclusion of hunting motives in operas.

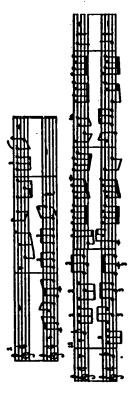
Octavia of Reinhard Keiser of 1705, and clearly eighteenth century opera orchestra is found in shadowed Handel's treatment of the horns while lized in the opera, including the use of hornillustrates the stylized hunting motives uti-One of the earliest uses of horns in the fifths. Many of Keiser's horn passages fore-Keiser's manner of combining hunting motives

baroque clarino style typical of Bach's writing with florid figures is similar to the later for horns.

encouraged and enhanced through the improvement formance as on any other aspect of horn tradi-The emerging orchestral horn style of the early eighteenth century was as much dependent tion. Horn performance was, in turn, greatly of the Instrument itself. The first Viennese orchestral horn. It was this instrument that was first fitted with removable crooks establishing the keys of E-flat and F as the stanhorn-makers, Johannes and Michael Leichnambon the development and quality of horn perchasse of the field to the dark, warm toned schneider, transformed the blatant cor-de-Austrian Waldhorn which became the first dard length for the horn.

style of performance technique was retained and of the out-of-doors, military instrument of the and capable of a more successful blend with the istic shape of the French cor-de-chasse, but it for quality instruments reflects the desire for to become a suitable instrument for indoor use concert horn in contrast to the brilliant tone quality, the use of crooks to alter the length refinements in the instrument allowed the horn better instruments so better performance could had acquired a darker and softer tone quality of the instrument provided the performer more The demand by the musicians of this area hunt. In addition to the refinement in tone result. No longer a crude instrument of the nambschneiders still retained the characterhunt the orchestral instrument of the Leichthat had quickly become the hallmark of the other instruments of the ensemble. Thus a accuracy of tone placement as well. These precise intonation and presumably greater at once refined.

baroque era. The first illustration in Figure 2 Once the horn became an accepted instrument was retained, expansion of the range to include Instrument. Even as the hunting-horn character The work actually begins with a "greeting-call" the diatonic possibilities of the higher regisnature with the development of the florid clarshows the relationship of the opening measures or inclusion in musical ensembles, composers began to exploit further the potential of the of this work with the hunting-horn repertoire. which Bach quickly transforms into the florid Bach's Brandenburg Concerto No. 1 illustrates the amalgamation of the early hunting-horn clarino style. Composers of this era did not er was incorporated into the horn style. trumpet/horn style of playing during the ino figures which became the recognized



Johann Sebastian Bach, Brandenburg Concerto No. 1, First Movement. Figure 2.

octave leaps often requiring the horn player to hesitate to extend the range to the top of the horn's register through florid passages and ascend well beyond the sixteenth partial.

12

tura of the horn naturally encouraged composers brass music written in the extreme tessitura as to utilize this register more frequently. The only indicates the nature and proliferation of generally prevalent during the greater part of was extremely demanding on the performer, and natural for the performer. The music written for the baroque clarino style of horn playing tends to be viewed as an indigenous nature of that what may be considered natural and idiolarge body of music extant from this era not basis for a comparable assumption of what is tonic performance in the extreme high tessiaccessibility of partials available for diathe baroque horn, but it must be remembered the prevailing brass baroque style, but is the eighteenth century. The clarino style matic for the instrument should not be the employed with specific performers in mind in point of fact, the high tessitura was tribute to the high degree of virtuosity (Fitzpatrick, 1970, p. 66).

end of the eighteenth century, becoming the most darker tone quality of the improved horns of the mately c' to f''. The emerging horn style, that that extended playing in the extreme area of the horn parts descending only twice below c' in the third octave (g' to c''') comprised a frequency horn, was the hallmark of the instrument by the was more and more influenced by the refined and of 26% of all horn appearances in the first and darker, mellower tone, which was unique to the third movements, and 12% in the Trio II of the Minuet (Bostley, 1980, pp. 148-157). With the ascend to the top of his range in the Brandenentire work, the majority of the horn playing Leichnambschneiders, favored the tone of the notes that fell into the middle range. This was confined to the middle range of approxiburg Concerto No. 1, it is worth considering Although the hornist was required to

ance practice superseded considerations of range influential aspect of horn style, while performand technique,

ported this ideal tone, would be favored by both sonorous tone of the horn in the middle register expanded the style of the horn to make it a most resulting from the wide range of the instrument, Such a dark and mellow tone had a tendency the ensemble, and it is understandable how the rich polyphonic texture of the baroque, a tone registers necessitated more consideration than In addition, instrumental identity tends to be Selection of merely virtuosic concerns. In an unencumbered versatile instrument during the second quarter clarity within a thickly textured composition. composition with transparent texture the dark, composers and performers. Ironically, in the to blend easily with the other instruments of middle register, which most successfully supbetter opportunity for the penetration of the horn timbre. Thus the variety of tone color, thickened, the high register would provide a that blended too well could cause a loss of would be discernible, but as the texture absorbed in the texture as well. of the eighteenth century.

# The Emergence of the Romantic Horn

tury the development of the "romantic" horn tone Although the process of inserting the right hand into the bell was intended primarily to increase softer, darker tone quality that resulted became at mid-century, the course of the horn style and style," and with the discovery of hand-stopping and style moved away from that of the "baroquethe technical potential of the instrument, the In the second half of the eighteenth cenperformance technique was greatly altered. immediately prized. This concept of tone

today, although the use of hand-stopping tends remains intact in horn performance technique to be limited to muting effects.

the mouthplece) which also contributed to a more middle and low register horn playing became more corollary results. Besides the important potenentire range of the instrument, the tone quality was immediately altered and enhanced because the allowing more of the dark lower partials to promitted a change in embouchure (more upper lip on change, performers also adopted the thin rimmed, dard practice. This new hand position required the lowering of the instrument to the knee, and the resulting new posture helped to absorb some the middle register, the extreme high tessitura was no longer necessary, thus removing the need the development of the hand-horn technique that to conveniently alter the open pitches (natural ject. With the diatonic potential realized in placement of the hand in the bell became stanpitches of the overtone series) of the horn to brought about, at one stroke, many significant Anton Joseph Hampl has been credited with the bell of the instrument in such a manner as of the brilliant high overtone partials while for excessive mouthplece pressure. This perdesirable tone quality. With this embouchure requires the insertion of the right hand into high-horn clarino specialist (cor-alt) of the baroque era, and the low hand-horn specialist style of horn playing prevalent in the latter revolutionary discovery of hand-stopping also styles of horn-playing; the retention of the prized. This turn of events resulted in two permit a chromatic scale to be played. This tial of diatonic performance throughout the Ironically it was the cor-basso specialist, revolutionized the technique and subsequent deep funnel mouthplece. As a consequence, (cor-basso) of the emerging classical era. part of the eighteenth century.

having gradually absorbed both styles of playing specialities in becoming a "cor-mixed" specialist, who eventually became the widely acclaimed virtuoso soloist by the 1780's.

retention of the extreme high tessitura, but the characterized both the baroque and early classistill required to ascend into the fourth octave, extreme high register on any regular basis, had trademark of second horn writing and an exhibition of virtuosity in the horn concertos during were retained because of the inherent nature of and wide interval leaps into the extreme range playing. Certain aspects of the clarino style the natural horn as well as the needs of the evolving orchestral style. Many horn passages florid style has given way to the more austere cal orchestral horn writing. The second horn, octave. These wide skips, requiring immediate change from one register to another, became a marked the beginning of the demise of clarino to negotiate wide intervals in excess of the in the symphonies of Stamitz demonstrate the scalar manner of horn playing that developed during the Mannheim era. Horn players were The acceptance of the hand-horn style the latter part of the eighteenth century. although not required to ascend into the

It was during the second half of the eightteenth century that the great horn-players
gained prominence for their art through the
ability to perform accurately throughout the
entire range of the instrument, especially in
the middle and lower registers. Throughout the
remainder of the century and into the first
decade of the nineteenth century, horn-playing
and horn-players realized greater attainments
and recognition for their performance than had
been possible prior to this period. Although
orchestral horn passages provided only occasional opportunities for the virtuoso

potentials of these great horn performers, it was the solo literature, the many concertos composed and performed during this era, that established the fame and credibility of the horn as an important artistic instrument.

Unlike the generally demanding and virtuoso level of orchestral horn writing of the baroque, the orchestral passages of the classial composers tended to be bland and not nearly as challenging. Rhythmic accentuation, sustained harmonic accompaniment, and melodic reinforcement characterized the role of the horn in the orchestral works of Haydn and Mozart.

By contrast, the horn concertos of this same era provided the performers the opportunity to display the virtuosity for which they had become widely acclaimed. Many of the techniques of horn writing during the baroque era had an obvious influence on the horn concertos of the late eighteenth century. The florid style, lacking in the orchestral horn parts, was retained in the concerto, frequently occurring in the middle as well as high register.

The popularization and elevation of the horn to an accepted artistic level was not based exclusively on the technical prowess displayed by performer on the fast, florid played by performer on the fast, florid the most important aspects of the horn's poputarity, its tone quality, was best displayed in larity, its tone quality, was best displayed in the slow, lyrical movements. The ability of a performer to deliver a slow, smooth, expressive performer to deliver a slow, smooth, expressive plending of the open and closed notes of the middle range was held in as high esteem as any middle range was held in as high esteem as any other aspect of performance. Such testimonials other aspect is the Parisian critic's comment as ". . . it is the Parisian critic's comment on Leutgeb's ability to sing an adaglo 'as

of musicianship, all the more remarkable in conof the art of horn-playing to emerge during this ". . Even the most respected connoisseurs the instrument, points to a very complete range sidering that the instrument still retained the same physical limitations as its predecessor of were forced to admit . . . His delivery on this Glovanni Punto, perhaps the finest practitioner . . " (Fitzpatrick, 1970, p. 184) supports the century, the ability of the many horn virtuosos importance subscribed to the lyrical nature of perfectly as the most mellow, interesting, and accurate voice'," (Fitzpatrick, 1970, p. 164), the horn. Thus, by the end of the eighteenth of the era, and the extant music composed for normally difficult instrument was pure song and the following concerning a concert by one hundred years. Although the right-hand technique seemed to Mozart, but "The majority of Mozart's orchestral stopping had by this stage been developed by the the baroque orchestra, but this was necessitated occur in the orchestral literature of Haydn and run-of-the-mill orchestral horn-players of the style, therefore, by the end of the eighteenth instrument, which seemed to be overcome by the virtuosic abilities of the performers, but the subjugation of the horn to the requirements of day; and considering the degree to which handsoloists, were remarkably conservative" (Fitzhorn parts . . . are clearly intended for the century, assumed a less dramatic role than in orchestral horn-player, stopped passages did patrick, 1970, p. 184). The orchestral horn be reserved for the soloist rather than the not just because of the limitations of the the classical style of orchestral music.

gradually became more influenced by the highly music of the early nineteenth century though, The horn style found in the orchestral

gressions necessitating a precise hand-stopping stopping, a technique which, in this instance, is not of virtuosic demand. The last movement, deliver a forceful, heroic statement (Figure 3) that involves many chromatic and diatonic pro-Beethoven's Eroica Symphony, with the huntingdeveloped hand-horn style of the previous cenbasic elements of artistically blending open famous horn virtuosos gradually faded by the on the other hand, requires unison horns to second quarter of the new century, yet the not virtuoso music (indeed the era of the playing technique. The famous Scherzo of increasingly part of the orchestral hornhorn trio, requires the minimum of handtones with the muffled stopped notes was tury, but with certain modifications. is not of virtuosic demand.



Beethoven, Symphony No. 3. "Eroica." Fourth Movement, measures 380-396. Figure 3.

stopping in important horn passages throughout There are other examples of the need for handthe orchestral works of Beethoven, especially technique for effective and accurate results. the famous fourth horn passages in the Ninth Symphony (the third movement in particular). Likewise the high tessitura  $(\underline{g}''$  to  $\underline{c}'''$ ) was not called upon with regularity.

are of a solo or prominent nature. Thus, by the orchestral horn-player was accustomed to a horn the horn and the most resonant registers of the phonies, although 52% of these high occurrences Beethoven requires the horns to perform in the style that emphasized the unique sonorities of first quarter of the nineteenth century, the high register (g' and above) for only 1% of their appearances throughout the nine syminstrument

the horns in the later symphonies of Mozart with tra. This is noticeable in comparing the use of works. Mozart saw fit to give the horns only 3% Both tended to utilize the horns with about the but the significant difference is in the promiof solo or prominent exposure with the majority panying. Beethoven, on the other hand, favored of playing as merely "filler-parts" and accom-With this horn style development it seems prominence as a solo instrument in the orchessame frequency (the G minor Symphony of Mozart while 47% is required in the Eroica Symphony), requires the horns to perform 51% of the time nence of the horn passages appearing in both only natural that the instrument gained more the use of horns in Beethoven's symphonies. the horns with 23% appearance in a solo or prominent manner.

tury the valve system was developed and added to the performers and composers of the new century. the natural horn. At first glance, at least in During the second decade of the nineteenth cendevelopment was added to the horn's technique-a development destined to be even more influenexclusive tradition of playing on the standard Just as the horn style seemed settled by the first quarter of the new century, another previous century but slower to be accepted by tial than the hand-stopping technique of the the perspective of today's musicians with an

the natural horn was carefully maintained in the have been the solution to completely perfecting for so long. The hand-stopping device provided performers and composers alike remained adamant in their reluctance to accept the valve instrument or tamper with the horn style so carefully adopted by the performers by the latter part of developed throughout the previous century. In fact, the prevailing "romatic-heroic" style of the very limited instrument that had been used orchestral horn parts of the romantic era comstopping of a more uniform tone production as their instruments lyrical, diatonic melodies, would have been as welcomed as the advantages three-valve instrument, this invention would but with obvious limitations. Certainly the the valves provided the advantage over handdiscovered with hand-stopping. In addition, ability to immediately absorb the chromatic advantages enjoyed by the other instruments the performers the ability to extract from opposed to the change from open to muffled posers even as the valves were grudgingly tones necessitated on the natural horn. the nineteenth century.

instrument. It was the enhancement of tone with a dark, veiled romantic quality that resulted iconoclastic in a strict sense of tradition, but vided more than just the ability to perform diacomposers were determined to preserve. Further-To the contemporary musician this may seem from the hand in the bell and which had come to characterize the horn idiom that performers and moving from a muffled tone to an open tone provided a sense of expression not possible with the valve instrument even though the hand was it must be remembered that hand-stopping protonically throughout the entire range of the more, the subtle change of color effected by retained in the bell.

and apparently no consideration was given to the matic, or even diatonic progressions which would posers continually treated the horn as a natural ment. The second valve placed the F horn in E, lish the proper length of tubing for the approhorn and utilized the open pitches of the overpriate key, the horn was played as a hand-horn, tone series more often than the closed pitches. At first, two valves were added to the instrufor the horn. Once a valve was used to estabwas not treated as a means of creating a chrothe first valve provided tubing sufficient to eliminate the closed, or muffled tones. This Thus, the addition of valves to the horn horn in D, the four favored and standard keys potential of changing valves to provide chrobination of the two valves provided a natural crooks to correspond to the key of the music. play the natural horn in E-flat, and the commatic instrument, but rather as a convenient means to eliminate the necessity of changing was, in fact, not necessary because the comgenerally used the more practical pitches to When resorting to the closed pitches, they minimize extreme tone contrast. Because of the concern for the major advantage of the natural horn, i.e., its tone quality, (the strong tradition that was brought to its peak during the first two decades of the nineteenth century), the performers and composers were reluctant to abandon such a tradition. Brahms, who had played the natural horn in his youth, continued to treat the valve-horn as a natural horn as late as 1880, although it appears that in his later works he did use the valve-horn even though he maintained the earlier traditional style. This trend appears to be true in most of the composers of the late nine-teenth century.

## The Modern Horn

It was during the era of 1880-1910 that the appear that the transformation in the nature and works for the horn of the 1850's, the Adagio and intricate and demanding passages for horn found function of the instrument was somewhat abrupt. as composers continued to emulate the hand-horn "Seigfried Horn Call" performed off-stage, from both required the use of the valve-horn. Even style, their orchestral music began to require which is intended to sound like a natural horn Allegro, and the Concert Piece for Four Horns, Yet it was a gradual change that evolved from the mid-century. Robert Schumann's two solo valve-horn, hitherto treated as a hand-horn, the Ring of the Nibelung of Richard Wagner, emerged as the modern chromatic instrument still in use today. In view of the famous in the music of Strauss and Mahler, it may the use of valve-instruments. The famous in the distance,

for its rapid and smooth delivery. And as a matter of fact no player in his senses would dream of playing it on a valve-less instrument. In short it is a happy instance of a valve-horn passage preserving almost intact all the characteristic features of the old hand-horn music. (Forsyth, 1935, p. 128)

In the introductory notes to the score of ristan and Isolde of 1859, Richard Wagner recognized the controversy surrounding the adoption of the valve-horn by orchestral performers, but he strongly encouraged the use of the new horn with the admonition "that capable artists can, by specially careful management" (Blanford, 1922, p. 694) overcome the disadvantages of tone

instruct horn-players to study the horn passages Strauss admitted that the tone of the valve-horn of the opera carefully to insure faithful executable refinements that would soon become a part was inferior to the tone quality of the natural score. Wagner accurately predicted the inevicommenting on the advanced state of the art of tion of the stopped notes as indicated in the inherent on the valve-horn. He continued to encouraged, even demanded. Richard Strauss, of the horn-players technique. Even though horn, the advantages of the valve-horn were orchestration by the turn of the twentleth recognized. Mechanical improvements were century, wrote in 1904:

their level. They have the greatest influwhich at first do not seem feasible, gradu-The practical instrumentalist, through Instruments, on improvements in their techally lift the ambitious instrumentalist to expressive possibilities. (Berlioz, 1948, his skill, stimulates the composer to new ideas. Great ideas, on the other hand, ence on progress in the construction of nique, and on the enrichment of the

changing nature of orchestral music, the new and a valve-horn. The composers at the forefront of altogether impossible to perform on anything but Strauss and Mahler, did use the horn as a chro-Certainly the horn music of the late ninecontemporary music during this era, especially expanding size of the orchestra as well as the modern valve-horn. The unusual demands Mahler matic instrument. Because of the continually increased demands resulted in adoption of the placed on the instrument were a result of his combining the virtuoso aspects of both the teenth century (at times reminiscent of an earlier tradition) was impractical if not

baroque and classic styles of playing within his concertos held in such high esteem in the eightorchestral work, although Mahler does not extend eenth century. That he was aware of the diffitypify the lyric adagios of the classical horn the range beyond c'''. Likewise, Mahler provides many examples of long lyrical solos that culty of his horn parts is revealed in his own entire horn section that rival the most intricate clarino passages to appear in a baroque symphonic framework. Mahler provides many Instances of high florid passages for the

passages and figures escaped me here, just The individual parts [Fifth Symphony] because I do know the orchestra and its really need soloists. Some pretty bold instruments so well. (Blaukupf, 1973, are so difficult to play that they all p. 183)

first-horn player with him to assure the transcendentally difficult passages he had allotted that instrument [Sixth Symphony] an adequate He even felt the need to "take his trusted performance" (Engel, 1970, p. 114). The horn playing in the first decade of the twentieth century was not the culmination of the passages, but also by their inclusion within the is a quartal melodic ascent to the high b-flat'' basically tonal, the first passage for the horn Although his Chamber Symphony No. 1 of 1906 is Horn-players had been quite used to delivering spectrum of his experimentation with atonality. range, a practice well engrained in the hornart and technique of the instrument, but the triadic and scalar flourishes into the high emergence of the modern horn. In the first decade Schoenberg added new demands to horn playing, not only in technically difficult

familiar traditional harmonic concepts of tonal-Twelve-tone and other serial music provided peronly be overcome by developing a familiarity and ity, performance security was greatly affected. formers with new technical problems that could players' psyche through two hundred years of tradition. With the gradual demise of the comprehension of the new abstract musical

vocabulary.

series. Contemporary composers, though, require use of half-depressed valves, and finger tapping manner and humming another pitch in the overtone eenth century performed so-called "double-stops" a variety of vocalizing techniques that approxipitches on the mouthpiece alone, or placing the the horn is not new; horn-players of the eight-More recently horn-players have been faced horn requires production of chords on the horn) with new technical demands. "Vocalizing" into mate conversations and other vocal expressions on the horn bell or mute, are just a few other by simultaneously buzzing a tone in the normal mouthplece into other tubing of the horn, the or "horn-chords" (Weber's Concertino in E for in the instrument. Buzzing non-determined examples of new horn techniques in recent avant-garde music.

become enduring aspects of the continually evolv-To what extent any of these new devices will have always been open to challenge and criticism. The use of horn-chords in the eighteenth century (Morley-Pegge, 1960, p. 147). Even the addition the nineteenth century. Innovations aside, the most enduring aspect of the horn tradition, the ing horn tradition must be left to speculation, uniquely inherent, expressive tone quality best of valves was resisted for the greater part of but any innovations that tamper with tradition was considered "worthy only of charlatans" revealed in the lyrical song-like melodies,

formers, composers, and audiences well into the promises to remain a dominant influence on perfuture

## Reference notes

1. The following system of identifying registers article and will identify the pitches as they and individual notes which fall within the register, will be utilized throughout the appear on the staff regardless of the of the instrument sounding the note.



## References

Treatise on instrumentation (Enl. and rev. by Richard Strauss; trans. by J. New York: E. F. Kalmus, 1948. Berlioz, H. Front). Wagner and the horn parts of Lohengrin. The Musical Times, 1922, 63, 694. Blanford, W. F. H.

Blaukupf, K. Gustav Mahler (Trans. Inge Good-man). New York: Praeger Publishers, 1973.

Bostley, E. J. The horn in the music of Gustav Mahler. Unpublished doctoral dissertation, The University of Missouri-Kansas City, 1980.

Engel, G. Gustav Mahler, Song-Symphonist. New York: David Lewis, 1970.

Fitzpatrick, H. The horn and horn playing. London: The Macmillan Co., 1935. Forsyth, C. Orchestration (2nd edition). London: The Macmillan Co., 1935.

Morley-Pegge, R. The French horn. New York: Philosophical Library, 1960.

THE EFFECT OF APPROVAL, DISAPPROVAL, AND TEACHER ERROR ON CLASSROOM ATTENTIVENESS: HIGH SCHOOL BAND VERSUS HIGH SCHOOL CHORUS\*

Denise E. Moyer Shawnee Mission, Kansas, Public Schools prerequisite to all learning by Krathwohl, Bloom, and Masia (1964, pp. 98-99); Engelmann, and Thomas (1975, p. 33); and others. If the student is not attending to instruction, how can he learn and participate in class? The instructor is responsible for getting and keeping the attention of the students, and demanding that no other behavior occur. How is this achieved?

Kuhn (1972, p. 8) and Murray (1972, pp. 2-8) and other music educators stress the value of positive reinforcement and its effect on classroom attentiveness. However, results from studies give confilcting evidence.

Madsen, Wolfe, and Madsen (1969, pp. 22-34) claim in their study that there was a significant improvement (p < .01) in intonation of scales sung by students receiving positive reinforcement. They also report a significant improvement (p < .01) in intonation of scales sung by students receiving no positive reinforcement.

Greer, Randall, and Timberlake (1971, pp. 10-18); Jorgenson (1971, pp. 134-145); and others have found that music itself may be used

<sup>\*</sup> Based on Denise E. Moyer's master's thesis at The University of Missouri-Kansas City.

as positive reinforcement for appropriate behavior.

Forsythe (1975, pp. 49-55) found the attending behavior of students in elementary music classrooms greater than the attending behavior of the same students in their regular elementary classes. Forsythe speculated that the subject matter may have been more reinforcing.

Moffat (1969, pp. 34-44) found a difference in responses to two contrasting styles in music, and speculated that some types of music may be more reinforcing than others. If a director of a high school band or chorus is not giving reinforcement, and students are attending anyway, it would tend to support Moffat's confecture that it is the music itself that is reinforcing. Are there differences in attentiveness relating to the performance medium and its literature? It may be that the music in band or the music in chorus may act as a reinforcer.

## The Problem

Is the degree of attentiveness of members of a high school band greater than the attentiveness of members of a high school chorus, regardless of the amount of positive reinforcement, and approval or disapproval error provided by the ensemble director?

## The Purpose

The purpose of this investigation is to compare the attentiveness of high school band students in three Kansas City Metropolitan area

schools with the attentiveness of high school choral students in the same schools on three observable occasions.

## The Definitions

- 1. On-Task Behavior or Attentiveness (Active) is defined in this study as the amount of time the student is supposed to be singing or playing and looking at either the music or the conductor and is doing so.
- 2. On-Task Behavior or Attentiveness (Passive) is defined in this study as the amount of time the student is not supposed to be singing or playing, but is quiet and looking at either the music, the conductor, or the section members who are singing or playing.
- 3. Off-Task Behavior is defined in this study as the amount of time the student is supposed to be singing or playing and looking at either the music or the conductor and is not doing so. Off-Task Behavior may also be defined as the amount of time the student is not supposed to be singing or playing, but should be quiet and looking at either the music, the conductor, or the section members who are singing or playing, and is not doing so.

### Method

A descriptive design was used for this study. The sample consisted of members of three high school choruses (one band and one chorus from each school) in three class 4A high schools in the Kansas City Metropolitan area in Missouri.

Three trained observers participated in this experiment. The usual format was not altered in any way by the observers and the approval/disapproval ratios given by the directors were not predetermined or manipulated. The directors did not know the specific behavior being measured until the end of the observational period.

the flve-second interval, observers recorded the fifteen-second observe/five-second record inter-Forsythe (1972, pp. 51-52) modified for use with The observation form used in this study was five-second pause, then "observe," etc. During behaviors that had occurred during the previous passed in each class, to give the students some mitted through earphones provided a verbal cue one similar to those used by Murray, Kuhn, and observers, as well as for summarizing the data observed, so a total of twenty minutes, eighty observer training period. Using that interval after the observation. The decision to use a seconds was observed. The observers did not presence. A prerecorded cassette tape transval was based on results obtained during the each line of the observation represented ten for the observers. A voice on the tape said band and chorus. The observational form was time to become accustomed to the observer's pause, then the voice said "record," then a forms were used for each class period being "observe," then there was a fifteen-second begin until approximately ten minutes had designed so it could be used by all the minutes, forty seconds when completed. fifteen-second observation interval. During the experiment two trained observers recorded overt student off-task behavior. The observers sat behind and to the right of the director. During the first observational interval, on each line of the observation form, "Observe 1," the observers scanned a particular

section of the chorus or band. During the first record interval, the observers recorded the number of students in the section off-task, "Record 2." The same procedure was employed across the other sections so that each of four sections; soprano, alto, tenor and bass, in chorus; and high woodwind, low woodwind, brass, and percussion, in band, was observed for one fifteen-second interval. Each line was one minute, twenty seconds of observation and record. After waiting five minutes, using a second identical form, the observation was repeated. A total of twenty minutes, eighty seconds of time was observed and recorded in each observational setting.

In recording teacher responses during the experiment, one observer sat at the back of the rehearsal room. During each record interval, the teacher responses that occurred during the previous observation interval were recorded. The teacher response recording was carried out at the same time as the observation of student behavior, and the teacher observer heard the same recording instructions on the headphones as the other two observers.

### Results

Scores from observer records were tallied on summary sheets before data were analyzed.

Data were analyzed by ANOVA (Wright, 1976, pp. 383-383), Pearson product-moment correlation (Spence, Underwood, Duncan & Cotton, 1968, p. 121), t-test (Guilford & Fruchter), and Multiple Regression (Snedecor & Cochran, 1967, pp. 381-418).

A one-way analysis of variance indicated no significant difference (.05 level) in the amount of positive reinforcement provided by the

~

ensemble director of high school band and of high school chorus, F=2.00~(1,45), p < .05. The amount in each case was quite low.

An analysis of variance with interaction for off-task by band and chorus indicated a significant difference (.05 level) in the percent of off-task behavior for high school band members and high school choral members, F = 13.60 (1,95), p < .05. There was greater off-task in chorus.

A one-way analysis of variance indicated a significant difference (.05 level) in the amount of negative reinforcement provided by the high school band directors and high school choral directors, F = 18.89 (1,45), p < .05. More disapproval was provided by the high school choral directors.

A one-way analysis of variance with interaction for disapproval and approval error by group indicated a significant interaction in the number of disapproval/approval errors for high school band directors and high school choral directors, F = 5.71 (1,93), p < .05. Main effects were not significant. More approval error was provided by high school choral directors, while more disapproval error was provided by high school band directors.

A multiple regression analysis indicated no significant difference (.05 level) between the amount of positive and negative reinforcement and attentiveness of the students. There was no significant relationship between observed disapproval, approval and number of off-task incidents in the sample. Regression effect of disapproval was practically nil.

## Conclusions

Subject to the circumstances and limitations of this study, the following conclusions were drawn. The amount of positive reinforcement provided by the ensemble director did not differ significantly between high school band and high school chorus. The amount of approval provided in both ensembles was moderately low.

In this study there was a significant difference (p < .05) in evidence of off-task behavior. Choral students were observed more often off-task than band students. It appears then, that approval was not related to attentiveness.

This study indicates no significant interaction between the amount of positive and negative reinforcement and attentiveness of the students. This finding would tend to support the speculation of Forsythe (1975, pp. 49-55), that the music itself may be more reinforcing. If there is no significant relationship between the amount of positive and negative reinforcement provided by the ensemble director, and students are attending anyway, it would appear that the ensemble medium may be more reinforcing.

From the data generated in this investigation, it was concluded that if more disapproval than approval is provided by the ensemble director, the students may be observed off-task more often as a means of getting teacher attention. When there is a greater number of students off-task, the ensemble director may tend to give more disapproval rather than providing approval for the students that are on-task or attending. However, there was no significant relationship found in this study between approval, disapproval, and their effect on

attentiveness. This again tends to support the conjecture of Forsythe (1975, pp. 49-55), that the music itself may be more reinforcing regardless of approval or disapproval provided by the teacher.

Results from this study indicate that the degree of attentiveness of members of a high school band is greater than the attentiveness of the amount of positive reinforcement, negative reinforcement, and approval or disapproval error provided by the ensemble director.

## References

Becker, W. C., Engelmann, S., & Thomas, D. R.

Teaching 2: Cognitive learning and instruction. Chicago: Science Research Associates, 1975.

forsythe, J. L. The effect of teacher approval, disapproval, and errors on student attentiveness. (University of Illinois). Quoted Madsen, C. K., Greer, R. D., and Madsen, C. H., Jr. (Eds.). Research in music behavior: Modifying music behavior in the classroom. New York: Teachers College Press, 1975.

Greer, R. D., Randall, A., & Timberlake, C. The discriminate use of music listening as a contingency for improvement in vocal pitch acuity and attending behavior. Council for Research in Music Education, 1971, 26, 10-18.

Guilford, J. P., & Fruchter, B. Fundamental statistics in psychology and education. New York: McGraw Hill, 1973.

Jorgenson, H. A. Effect of behaviors of a profoundly retarded child. Journal of Music Therapy, 1971, 8, 139-145.

Krathwohl, D. R., Bloom, B. S., & Masla, B. B.

Taxonomy of educational objectives: The
classification of educational goals, handbook II: Affective domain. New York:
David McKay, 1964.

Kuhn, T. L. The effect of teacher approval and disapproval on attentiveness, musical achievement, and attitude of fifth grade students. Ph.D. dissertation, Florida State University, 1972.

Madsen, C. K., Wolfe, D. E., & Madsen, C. H.

The effect of reinforcement and directional scalar methodology on intonational improvement. Council for Research in Music Education, 1969, 18, 22-34.

Moffat, G. M. Avoidance conditioning in young children employing interruption of a posttive stimulus as the aversive event. Ph.D. dissertation, University of South Dakota, 1969.

Murray, K. C. The effect of teacher approval/disapproval on musical performance, attentiveness, and attitude of high school choruses. Ph.D. dissertation, Florida State University, 1972.

Snedecor, G. W., & Cochran, W. G. Statistical Methods. (6th ed.) Ames, Iowa: Iowa State University Press, 1967.

Spence, J. T., Underwood, B. J., Duncan, C. P., and Cotton, J. W. Elementary Statistics. New York: Appleton-Century-Crofts, 1968.

REHEARSAL OBSERVATION FORMS

STUDENT ACTIVITY: STUDENT ON/OFF TASK, TEACHER RESPONSE

	A D - 1 2 3 4 A D - 1 2 3 4 A D - 1 2 3 4 A D - 1 A D	4		7 5 7 1 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
2	00 00 00 00 00 00 00 00 00 00 00 00 00	V V V V V V V V V V V V V V V V V V V	00 a 00	4   7   7   7   7   7   7   7   7   7
****	OBNERVE3	2 <u></u>		4 (0 (4) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
	08284 A 1 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A	$a \sqcup \Delta \sqcup \lambda$		0 N N N N N N N N N N N N N N N N N N N
	2 - 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			

EXPLANATION OF REHEARSAL OBSERVATION FORM

P 1 2 3 4					CHORUS Soprano Section	Alto Section	Tenor Section	Bass Section
2	A D I	2			•			•
	t	STUDENT ACTIVITY			BAND High Woodwind Section	Low Woodwind Section	Brass Section	Percussion Section
tivity	# of Students off-task		ormance	ance	HASH W	LOW WO.	Brass S	Percus
Student Activity	Teacher Responses		Nonperformance	Performance	• • <del>-</del>	2	m	-
န	Tes Res		ı Z	11 Pr				

## TEACHER RESPONSES

Wal	
Appr	
•	

- A- Approval Error
  - D Disapproval
- D Disapproval Error
- I = Instruction
- P Performing

41

# A COMPARISON OF FREQUENCY DISCERNMENT ABILITIES

## Olin G. Parker University of Georgia

can hear two tones with pitches corresponding to The listener the individual stimulus frequencies if the difthe resonance region overlaps and only one tone perception of two different pitches in one-half that in the middle of a tonal range the differ-Smoorenburg, 1970). Roederer (1975) says this A single vibration pattern at the oval window gives rise to two resonance ing" loudness is heard. Pratt (1928) proposed musical stimulus consisting of two freof intermediate pitch with modulated or "beatis due to the ability of the cochlea to extriof the total number of trials is twenty cents. frequency corresponding to the component tone. ference in the frequencies is not tuned small If the frequency difference is smaller than a ence in frequencies which will give rise to a If the frecertain amount (jnd or the difference limen), cate the frequency components from a complex Each tone oscillates with a quency difference between the two component resonance regions then can be heard as two tones is large enough, the corresponding quency components can be analyzed. regions of the basilar membrane. vibration pattern. separate tones.

In this connection it may be said that the pitch sub-test of the well-known Seashore battery includes intervals as small as six cents. Leipp (1977) reported that 50 percent of the students in the Conservatoire de Paris were able to discriminate intervals of four cents and Rakowski (1977) observed some students at the Academy of Music in Warsaw who could

OBSERVER 2 (Student off-task behavior) EXTENSION eadphone RECEIVING BOX 6 ft. extension cord extension cord BOX 6 ft. OBSERVER 1 (Student off-task behavior) response behavior) OBSERVER 3 Headphone (Teacher TAPE RECORDER ENSEMBLE (BAND OR CHORUS) CONTROL AND CONDUCTOR ADAPTOR

tial. Meyer (1978) reported similar results but range varied according to timbres. In the foregoing, discernment of frequency differences (of discriminate intervals with two cents differenelement not present when the stimuli are audio musical sounds present a timbre identification cautioned that each musician's discrimination the fundamentals) was better than in studies such as the present one due to the fact that generated.

frequencies--that these limits vary considerably Averaged over a number of trials and encomoccasion and the frequency range (Roderer, 1975, in their ability to discriminate differences in cents. According to several authors (Thurlow & accomplished only when the interval between the reports which emphasize that individuals differ from individual to individual, dependent on the passing the frequency range utilized in orches-Bernstein, 1957, and Plomp, 1964), the auditory smaller than a semitone. Lundin (1967) reports separation of two simultaneous frequency tones that the average person has a difference limen reference frequency is 435 Hz. There are many (jnd) of plus or minus three cycles when the tral music, however, the smallest difference limen (jnd) generally is reputed to be fifty simultaneous sounding frequencies is not in most musical frequency ranges may be and Radocy & Boyle, 1979).

occurs in the equal-tempered scale. Trombonists, degrees of variance in pitch, it would seem that the range of a trombone will be more discriminative than the acuity of pianists, who are not required to pay constant attention to pitch and their acuity for frequency discernment within however, are accustomed to a smaller range of who work only with the pitch variation that attention to pitch and deal with very small Because trombonists must pay constant

It would seem that pianists will have greater frequency discernment ability than trombonists at frequencies above and below the range of the trombone. frequencies than planists.

## Hypotheses

Ho--There is no significant difference in whether or not they perceived two frequencies. the reports of planists and trombonists as to

whether or not they perceived two frequencies. --There will be a difference in the reports of planists and trombonists as to

### Method

criteria for the thirty planists were that each Subjects. The sixty subjects were universubject had registered as a student in applied other instrument in an instrumental performing criterion for the thirty trombonists was that piano and that each pianist did not play any trombone at the University of Georgia. The they had registered as students in applied sity students--trombonists and planists. organization.

audio generators (an RCA WA-504 A and a Hewlett Stroboconn was fed in directly instead of using into a single channel, each signal was fed into set and control the frequencies of each generator. (The signal from each generator to the the tape deck was controlled to be no more than Apparatus and Utilization. Two sine wave a Flickinger Custom Mixer at a ±3dB. To regulate and control the intensity, the output to quency signals. A Stroboconn 645 was used to its microphone.) To combine the frequencies Packard 3300A) were used to provide the fre-

(

was the LED VU meter. An Ampex 351 tape deck (full track) was used to record the two frequencies and for the playing of the taped stimuli to each subject. Tape splicing equipment was used to control the duration of each tonal stimulus and each time spacing between stimuli. TDK-Audua tape was used.

To mask out unwanted noises from outside the test administration room, the taped stimuli were played using Ultralinear speakers in the four corners of the room in addition to Koss KO/747 earphones. Amplification was provided by a Harmon Kardon Citation 17 PreAmp, GAS Son of Arappilla Amplifier for the speakers, and a Rotel RA-120 amplifier for the earphones.

the purposes of this experiment examining the frequency discernment acuity of a group of trombonists and a group of planists. One sine wave generator was set on a selected fixed frequency while the other generator sounded a comparison frequency which varied upward from the fixed frequency in increments of 10 cents.

Seven frequencies (chosen so as not to represent a first position in any octave for the trombonists) were selected to be the fixed frequencies in each set of stimuli. They were:  $36.708(D_1)$ ,  $92.499(G_2)$ ,  $130.81(G_2)$ ,  $220.0(A_3)$ ,  $311.13(Eb_4)$ ,  $987.77(B_5)$ , and  $2349.3(D_7)$ . A total of 70 dyads of tones were produced (10 dyads at each frequency). Each stimulus was a combination of the chosen fixed frequency and a higher frequency designated randomly in the dyads, ranging from the fixed frequency to a frequency 100 cents higher, in increments of 10 cents. (See Appendix B.)

Stimuli duration was controlled by hand splicing each tonal stimulus on exactly 15 inches of tape (one second at a tape speed of 15 inches per second); each space between stimuli was spliced to 30 inches (2 seconds at 15 i.p.s.); and each space between sets of stimuli was spliced to be 60 inches (4 seconds at the tape speed used). Again, frequencies were controlled by referring to the Stroboconn at the presentation of each tonal stimulus—first setting the fixed tone, then setting the tone to be varied.

not clear concerning the discernment to be made, jects (one subject at a time) through earphones had two practice exercises. He was asked to write "1" or "2" in the appropriate blank after exercises. If it appeared that the subject was cedure, the tape presenting the stimuli was put while simultaneously another amplifier fed the the practice exercises were repeated and again administrator and reading the explanations and instructions on the answer sheet, each subject given and discussed after each of the practice The stimuli were presented to the 60 subsatisfied that the subject understood the prohearing each of the practice exercises, indipitch or two pitches. The correct answer was into operation and was not interrupted until hearing the verbal instructions of the test discussed. When the test administrator was stimuli to the four corner speakers. After cating whether he heard the stimuli as one all 70 stimuli had been experienced. Appendix A--an unused answer sheet.)

Appendix B, that the variances used in constructing the dyads were listed in a random fashion so that the subjects were unable to assume a predictiveness about the "next" stimulus. Also, it should be noted that the stimuli

forming the basis for this investigation were pairs of tones sounded simultaneously rather than successively.

### Results

The raw data were processed with two procedures to obtain and to check  $\chi^2$  (Chi-Square)

values. First, the formula  $\chi^2 = \frac{(0-E)^2}{E}$  was employed, computing on the basis of the experiment being a one-sample test.  $\chi^2$  was found to be .89. The tabled value of 3.84 > .89 (P > .05) indicated failure to reject  $\frac{1}{10}$ .

Second, the formula

$$X^2 = \frac{N - AD - BC - \frac{N^2}{2}}{(A + B) (C + D) (A + C) (B + D)}$$

was employed, computing on the basis of the experiment heing based on two independent samples.  $\chi^2$  was found to be .59. The tabled value of 3.84 > .59 (P > .05) indicated failure to reject H  $_{\rm o}$ .

## Summary and Conclusions

The difference limen (jnd) of a group of trombonists and a group of planists was not found to be significantly different. The group responses were very similar when measures of central tendencies (mean, medium, mode, range) and standard deviations were compared. When the formulas of computing for Chi-Square were applied, the value of  $\chi$  indicated that no significant differences existed in these sixty subjects when they were grouped as pianists and trombonists.

Trombonists have been strongly conditioned by learning and psycho-acoustic methods during the acquisition of their kinesthetic skills, i.e., constantly adjusting pitches by movement of the slide whereas pianists have none of this. It would seem that there would be significant differences in their frequency discernment abilities. The one major factor not controlled in this experiment was the assessment of or the matching of the subjects' musical abilities or musical sensitivities. Was it that the pianists, through listening as an adjunct to their acquirement of psychomotor skills, learn pitch aculties indirectly?

mixtures of timbres would be an added dimension. tones does not interfere with the discernment of intelligence, or scores/classifications obtained tral instruments. Heterogeneous and homogenous Recommendations for future research should It is generally assumed that the complexity of being complex tones produced by actual orchesinclude a similar type study with the stimuli from the subjects taking a standardized music upper partials may play a helpful role in the assumption needs to be examined. Also, might listener's point of focus, and, in fact, the discernment of frequency differences. This significantly divergent results be found if groupings were made according to sex, age, pitches because the fundamental is the test(s)? It was proposed at the beginning of the foregoing experiment that, because trombonists have to pay constant attention to adjustment for pitch and that planists do not, trombonists would have a more accurate acuity for frequency discernment. Is it possible that planists, being involved in performing simultaneous sounding tones (whereas trombonists perform tones

Finally, in the process of the development of frequency aculty discernment abilities, what role does maturation play? Regardless of the instrument on which one performs, are the attained frequency discernment abilities automatic by-products of maturation?

## References

- Bekesy, G. Auditory thresholds. Experiments in hearing. (Trans. & edit. by E. G. Weaver)

  New York: McGraw-Hill Book Company, 1960.
- Davies, J. B. The psychology of music. Stanford, California: Stanford University Press, 1978.
- Haack, P. A. The influence of loudness on the discrimination of musical factors. Journal of Research in Music Education, 1975, 23, 66-77
- Leipp, E. La machine a ecouter. Paris, 1977.
- Lundin, R. W. An objective psychology of music (2nd ed.). New York: The Ronald Press Company, 1967.
- Madsen, C. K. & Moore, R. S. Experimental research in music: Workbook in design and statistical tests. Raleigh, North Carolina: Contemporary Press, 1978.
- Meyer, J. The dependence of pitch on harmonic sound spectra. Psychology of Music, 1978, 6(1), 3-12.
- Moore, B. C. J. Frequency difference limens for

- short-duration tones. Journal of the Acoustical Society of America, 1973, 54, 610.
- Murray, K. R. Hemispheric and directional asymmetry of pitch discrimination. Journal of Research in Music Education, 1980, 28 (4), 225-228.
- Plomp, R. The ear as a frequency analyzer.

  Journal of the Acoustical Society of America,
  1964, 36, 1628-1636.
- Radocy, R. E. & Boyle, J. D. Psychoacoustical foundations. Psychological foundations of musical behavior. Springfield, Illinois: Charles C. Thomas, 1979.
- Rakowski, A. Memory for absolute and relative pitch. Symp. Psychoacoustique Musicale, Paris, 1977.
- Roederer, J. G. Introduction to the physics and psychophysics of music. New York: Springer-Verlag, 1975.
- Sergeant, D. & Boyle, J. D. Contextual influences on pitch judgement. Psychology of Music, 1980, 8(2), 3-15.
- Smoorenburg, G. F. Pitch perception of two-frequency stimuli. Journal of Acoustical Society of America, 1970, 48, 924.
- Thurlow, W. R. & Bernstein, S. Simultaneous two-tone pitch discrimination. Journal of the Acoustical Society of America, 1957, 29 515-519

## APPENDIX A

Code marber

Frequency Discernment Test

2 To the best of your knowledge, do you have "normal" hearing? (If "no," briefly describe your deficiency.\_ You will hear, at spaced intervals of one second, a sound to which you are to respond by writing 1 if you hear one pitch, and 2 if you hear too pitches simultaneously. These occur relatively fast, so make your answers quickly and be reedy for the maxt stimuli.

"Here is an example of one tone." \_\_

"Here is an example of two tones." \_\_

(write "1" or "2") "Ready, now, for practice exercise number 1."

"The answer (s 1 (one) because the tonel presentation had one pitch."

"The answer is 2 (two) because the tonal presentation had two pitches present." (write "I" or "2") "Ready, now for practice exercise number 2."

"Now you are ready to take the bast. Mark your answers in the columns indicated below. There will be a four-second interval to indicate the consistion of a set. You should, during that time, get ready to start the next column."

2 3 Set 9 Set 7 Set 8 **SET 9** ĭ ! z z - <del>1</del> اِ

ا اب ا ا

ا . ا

FREGUENCIES (Deviations in cents)

( <del>6</del> 2)	92.499
( <del>,</del>	249.3
<u>.</u>	77.78
કું	×.708 ⋅
Ĵ	130.61
( <b>a</b> )	מייונ
કે	20.0

8

2

\$

8

8

8

2

2

8

8

2

\$ 2

8 \$

8

8

2

8

8

51

20

## EDITORIAL PERSPECTIVES IN SUNDAY SCHOOL HYMNALS PUBLISHED BETWEEN 1859 AND 1898 WHICH REFLECT EDUCATIONAL PHILOSOPHY AND PRACTICE\*

#### Mary Voogt

Lowell Mason experienced such success teaching music to the men and women of Boston using Pestalozzian principles that he adapted the techniques to the teaching of children (Tellstrom, 1966, pp. 37-38). His experiments convinced educators and the public of the truth of his belief that "a capacity for music is much more common than is generally supposed" (Mason, 1826, p. 21). The city of Boston made music a part of its public school curriculum in 1838, followed by Chicago in 1841, and Cincinnati in 1846 (Tellstrom, 1966, pp. 35, 39). interest in teaching music to children led to publications for both public schools and Sunday Instructional series such as Lowell Schools. Mason and George Webb's The Primary School Song Book in Two Parts (1846), Mason's The Song Garden Series (1864), Hosea Holt's Normal Music Course (1883), and Luther Mason's National Music Course (1873-1895) were published for public Hymnals for Sunday School children schools. also flooded the market. Thirty-four Sunday School hymnals published between 1859 and 1898 were surveyed for content and editorial perspective. The hymnals are listed chronologically by short title and the contents of each itemized in The full title and publication Figure 1. information for each hymnal is listed in Note 1. The perspectives of the editors of some of these

<sup>\*</sup> Based on Mary Voogt's master's thesis at the University of Missouri-Kansas City.

				_	48 1	EVEL		1	_		100	CES			T 4	HZ BC	IP A	i es		1	
<b>ווא</b> זור	DENOMINATIONAL	West of	MUNICA OF					Sualica	SUBJECT	TITEL/FIRST	77.7		META I CAL	TURE MANE		PLAYERS		CADERS OF	OCTATION.	HYMMOLOGICAL STUDIES	TEACHING A 105
	Ë	314		-	-			-	1	-		-	<u>  = =</u> 	 	<u></u>			-		-	
1859 Oriola 1859 Sabbath Chimes		35						I		, re	ĺ						İ				
1860 Sabbath School		220						ż	x	x			]	x	ŀ		ĺ				
Hyun and Tune 1860 Sabbath School		177		i					l				'	ŀ			ł				
Sell No. 2 1861 Bredbury's		125	110	i		•				7.0								ļ		1	
Goldon Choin 1865 Plymouth		259	105						l	70	ł										
Setteth Cel. 1865 Reppy Volces	ŀ	24	163	1						7*											
1865 The Coshet		125	111	x	ļ					70	•										
1866 Golden		12	120	×		].		1		×				×							
Promise 1867 Fresh		18	161	×		1				*					٠		l				
1868 Shining		5	51		İ					*		}									
reeris 1869 Bright		17	15	*					×	X		İ		ŀ			1				
1870 Sabbeth Songs for Child.		210	161	×						×			1	*				<b>X</b>			
1879 Silver Song		19	151	*		×	×			×	ĺ	ļ					ļ				
n.d. Sunday School Hermanist		122	1119	×		×	×			×				*							
1871 The Cherm	į .	14	120	{ ×	ł	×	×		*	X							ĺ				
1871 Pure Gold		. 17	15	ł		l			*			l					1				
1871 Sporkling Josela		,	1	Ι.		•				"							1				
1872 Golden Auto		13	•	1						"	1										
1874 Golden Gate	İ	115	1.	1	ŀ		l		١.				1								
1876 Garlands of Profes		100		1			l		*		1						l				
1876 Good Hous		20	1	ı		1											l			ļ	
1877 Volume Tidings		"	1.	1					^	] ,											
1878 Proclams Joness	ŀ	Ľ	]	1		١.				,	1										
1880 Children's Hymnel Vith.		2*	l.,	1		-		"	"	, n			İ								
1981 Sen of Sens		13	<b>]</b> ,,	l					,	1	•	ı	l								
1981 Good as Gold		,	1	1	1	}		}	-		1		1			•			\	•	١ ١
1865 Epworth Hymnol	1		ł		1				l	1	1	1					-			1	
1885 Our Song Wreath 1891 Jouelad			11		1				,	1	1		1								
Cross 1895 Spirit and		1,	1.	1	1					1	ı				·						
Life No. 2 1996 Sunday-School		x ,		֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	ł			,	1				l					x			
Sook 1997 Young People's	.1	T.	֡֝֟֝֞֟֟֝֟֝֟֝֟֟֝֡֟֝֟֟֝֡֟֝֡֟֝֡֟֝֡֡֡֡֝֟֡֝֡֡֡֡֡֝֡֡֡֡֡֝֡֡֡֝֡֡֡֡֡֝֡֡֡֡֡֡	1			,	1	,	x								1	1		
Ryune I 1856 Songs of		7,	1	,						,	4										
21cm	<b>_</b>	<u>ـــــــــــــــــــــــــــــــــــــ</u>	1	1	1	+10	<u>.</u>		<del></del>	<del>, 11</del>	s to a	**	संस	H-	_						

Figure 1. Chronological list of hymnels.

hymnals will be shown to reflect the educational philosophy of the time.

The central emphasis of the Pestalozzian educational theory, which Lowell Mason thought he was following, was the moral development of the child. Moral development took precedence over both physical and intellectual development (Tellstrom, 1966, p. 25). Pestalozzi "considered music a prime contributor in effecting the moral aim of children" (Tellstrom, 1966, p. 25). Pestalozzi thought that singing, rather than the study of music principles, could reinforce emotions and cultivate a gentle spirit. Editors of Sunday School hymnals of this time period also attribute to singing the power to influence the moral development and even the salvation of the young.

Robert Lowry and Howard Doane state in the preface to Pure Gold for the Sunday School (1871) that "The music of the Sunday School is now acknowledged to be an important factor in that grand educational force which is levering up the rising generation to a plane of personal morality and Christian enlightenment" (Note 1, p. 2). They indicate that they have "aimed at a compilation of songs that would carry with them not only transfent gratification, but permanent profit" (Note 1, p. 2). In 1872 S. W. Straub, editor of The Golden Rule, also mentions moral development. He indicates "That the religious and moral influence of Sunday School is second to none, is conceded by all" (Note 1, p. 2).

Editors of some Sunday School hymnals indicate that salvation, a specific type of moral development, was their goal. William B. Bradbury states in the preface to Bradbury's Fresh Laurels for the Sabbath School (1867) that:

Believing in the early conversion of children to Christ, we have tried to put such songs in their mouths . . . as shall lead them directly to their loving Saviour. (Note 1, p. 2)

Horace Waters, in the preface to Sabbath School Bell No. 2 (1860) writes, "and we hope by the instrumentality of this book to sing a great multitude into the kingdom of Heaven" (Note 1). Even the title, Happy Voices (1865), indicates a positive view of the Sunday School. The preface states the editor's hope that this volume will "promote not only the happiness, but the salvation of the young" (Note 1, p. 2). In the preface to Pure Gold for the Sunday School (1871), the editors write, "With the hope that our labors may, in some degree, help the Sunday School teacher in his blessed calling, and be instrumental in leading many souls to the dear Redeemer . . . " (Note 1, p. 3).

Other editors of hymnals published between 1859 and 1872 who express a similar evangelistic goal for their hymnals are C. C. Mudge in The Sabbath Chimes (1859), Leonard Marshall in Sabbath Songs for Children's Worship (1870), W. A. Ogden in The Silver Song (1870), and P. P. Bliss in The Charm (1871).

From 1872 to 1898, only three editors from this survey make reference to evangelism as a goal of their works. These references appear in The Children's Hymnal (1880), The Young People's Hymnal (1897), and Songs of Zion (1898). Henry Wilder Foote, in his Three Centuries of American Hymnody (1940), suggests that

The great wave of enthusiasm for missions which marked the period from about 1820 to about 1870 had passed its crest, and with

It ebbed the impulse to write missionary hymns. (Note 1, p. 263)

Through Rousseau educators had come to respect the natural process of a child's growth and development. The emphasis of this theory "was upon the development of the child from within" (Tellstrom, 1966, p. 27). Two essential aspects of the application of developmentalism to the educational process are reflected in the editorial statements found in Sunday School hymnals of this time period. The first of these aspects of developmentalism is the need to teach from the simple to the complex, thus adapting the subject matter to the child's growth process.

As early as Bradbury in 1859 and Mason in 1860, editors of Sunday School hymnals discussed the need for music that children could understand and enjoy. Although differences of opinion existed over the use of secular tunes, the use of newly composed music, and the use of standard hymn tunes, all editors attempted to make their music appropriate for children. Bradbury's comment in <u>Fresh Laurels</u> (1867) is representative of the attitude of hymnal editors of that time. He says that "GOOD [sic] music, suited to the tastes and adapted to the capacities of children, must frequently be intro-ties of children, must frequently be intro-

It is not until 1870 that an editor presents the idea of providing music for various age groups of children within the Sunday School. Speaking of the hymns of The Silver Song (1870), Ogden the editor writes, "These are divided into three departments, viz:--Songs for 'General Class,' Songs for 'Infant Class,' and songs and choruses for the Sunday School and Home Circle" (Note 1, p. 2).

The use of the word "infant" to describe a

Sunday School age group was quite common at this time. It was used as early as 1860 by Waters in The Sabbath School Bell No. 2. Beneath the title "Happy Days of Childhood (Note 1, p. 71) is the designation "for the Infant Class." This is the only Infant Class song in that collection.

Hymns designated for the Infant Class are probably meant to be sung by three- and four-year olds as well as children in the lower elementary grades. The vocabulary seems to be aimed at young children. Phrases are short. Eighth and quarter note values are used almost exclusively. The repetitive melodies consist of much stepwise movement and frequent repeated notes. Skips, when used, outline triads. Tonic, subdominant and dominant harmonles are usual.

Although Bliss in The Charm (1871) includes a section of songs designated for the Infant Class, he makes no editorial statement about presenting music appropriate for different age groups. Included in this section is "The Storm--An Exercise Song" (Note 1, p. 108). The directions indicate the children are to use their hands and feet in imitating rain, thunder, and wind. The use of hand motions with song is a common practice even today with small children.

School Union at this time indicate a growing awareness of the need to provide materials appropriate for various age groups. The first primary teacher's meeting took place in St. Paul's Methodist Episcopal Church in Newark in 1870 (Development, 1905, p. 19), the year of Ogden's The Silver Song. The resulting Newark Primary Union became the National Primary Union in 1884. In spite of the union's goal of a separate course for the primary departments, it was not until 1901 that the first one-year

course for primary grades appeared (Development, 1905, p. 19).

Song (1870), such grouping did not become common practice. Shaw designates a single song for the Infant Class in The Golden Gate (1874). Hull includes one song with hand motions in Garlands of Praise (1876). In Spirit and Life No. 2 (1895), the editor, Lorenz, includes "children" as a subject heading in the topical index. Fifteen songs are listed. These fifteen songs are scattered throughout the contents of the hymmal.

The first hymnal in this survey that is geared specifically for older children is The Young People's Hymnal (1897) edited by W. D. Kirkland, James Atkins, and William J. Kirkpatrick. No exact ages are indicated in the preface.

From 1859 to 1898 there is the beginning of editorial interest in providing music for distinct age groups. Criteria for choosing music appropriate for various age groups are nearly non-existent. Usually music for more than one age group is presented in one hymnal. Graded books for school use were appearing at this time.

The second aspect of developmentalism considered essential in an educational process was maintaining the interest of the student. "The developmentalists considered interest as the prime stimulant or motivation for learning" (Tellstrom, 1966, p. 94). Editors of Sunday School hymnals emphasize the importance of maintaining the interest of the children in Sunday School through the use of song.

As early as 1836, Lowell Mason refers to the importance of maintaining the child's interest in singing in the preface to <u>Sabbath</u> School Songs. Mason writes: The music will be found very simple and easy, and in general of a lighter or more melodious character than is usual in common psalm tunes. Experience proves that music of this kind is more pleasing than that of a heavier or slower character, and that it is calculated to make the exercise of singing in Sabbath Schools more interesting and useful. (Mason, 1936, p. 2)

The primary way of maintaining interest in Sunday Schools proposed by the editors of Sunday School hymnals in the years 1859 to 1898 was through the repeated introduction of newly composed song material.

The 1859 Bradbury title, Oriola, A New and Complete Hymn and Tune Book for Sabbath Schools, emphasizes the word "new." In addition to the title's emphasis, the preface also shows support for new hymns by criticizing the use of standard hymn tunes. Bradbury writes:

We do not believe in the stiff, old-fashioned way many have of keeping the children singing nothing but Old Hundred, Dundee, Mear, St. Martins, and such like. Good old tunes these, no one will deny, and should be sung from time to time, but they are not in any peculiar sense children's tunes, and the children should not be limited to them. (Note 1, p. 111)

As a replacement for the standard hymn repertoire, Bradbury offers "current popular melodies and many composed for this volume" (Note 1, p. 111).

28

61

Sabbath School Melodies (1861), Bradbury succinctly states his goal. The purpose of the volume is "to furnish a pleasing variety of good NEW [sic] music and hymns composed and arranged expressly for the Sabbath School at a very moderate price" (Note 2, p. 2).

Asa Hull states in the preface to The Casket of Sunday School Melodies (1865) that "In compiling the 'Casket' it has been the leading object of the author to furnish the largest amount of new music in the smallest space possible" (Note 1, p. 2).

Bradbury relates the maintenance of interest directly to the use of newly composed music in his preface to Fresh Laurels (1867). He states that "in order to keep up the interest in the school, new music, and GOOD music, suited to the tastes, and adapted to the capacities of children must frequently be introduced" (Note 1, p. 2).

Similar tributes to the benefits of newly composed hymns and tunes are found in the prefaces of the following works:

- 1869 Robert Lowry's Bright Jewels for the Sunday School
- 1870 Leonard Marshall's Sabbath Songs for Children's Worship
- 1870 W. A. Ogden's The Silver Song
- 1871 Knowles Shaw's Sparkling Jewels for the Sunday School
- 1872 S. W. Straub's The Golden Rule

After 1872 there is less editorial emphasis on newly composed music. Several hymnal titles

still indicate this emphasis:

- 1877 Robert Lowry, Howard Doane, and Ira Sankey's Welcome Tidings: A New Collection of Sacred Songs for the Sunday School
- 1881 Robert Lowry and W. Howard Doane's Good as Gold: A New Collection of Sunday School Songs
- 1891 Asa Hull's The Jeweled Crown: A Choice Collection of Original Hymns and Tunes for the Sunday-School
- 1895 E. S. Lorenz's Spirit and Life No. 2:
  A Collection of New Songs for the Sunday School, Young People's Societies, Gospel and Devotional Meetings, Etc., Etc.

A regard for newly composed music can also be deduced when the editor or editors of the volume compose all of the music, or when the publisher copyrights most of the music for that edition.

Robert Lowry and Howard Doane edited and published Pure Gold for the Sunday School in 1871. Of the 151 tunes included, Lowry and Doane are credited with 111. Lowry and Doane again combined efforts on the hymnbook Welcome Tidings (1877). Ninety-three of the 145 tunes in this volume are copyright 1877 by either Biglow & Main or John Church & Co., the two publishers listed on the title page. In a similar effort in 1881, Good as Gold, Biglow & Main hold the 1880 copyright on 130 of 170 tunes

By the end of the nineteenth century there is less emphasis on newly composed music. The 1898 title Songs of Zion, A Collection of Old

63

and New Songs for Sabbath Schools, Prayer Meetings, Revivals and All Other Religious Worship indicates that this book includes both the old hymns and newly composed hymns.

School hymnbooks later in the nineteenth century. Mason suggests that "tunes of an inferior characsacred words" (Note 1, 1860, p. 11). He seems to object to secular tunes because "the religious talist emphasis on the importance of maintaining other editors. Mason was the first to recognize of children" (Park, Phelps, Wayland, Mason, Note that the solution to the problem of poor singing habits is not in the choice of music, but in the it seemed that children liked them. He comments ently did not approve of "the setting of some of appreciating devout worship music. Mason apparother editors indicate that it was poor singing ter were written" (Note 1, 1860, p. ii) because leaders to believe a more spirited type of song the danger of conforming to the "fancied wants 1, p. ii). In the introduction to The Sabbath that children exposed only to "jigs, ditties, negro songs (so called) [sic] and silly tunes" School Hymn and Tune Book (1860) he and three The editorial emphasis on newly composed music, perhaps in response to the developmenpoints which are echoed in prefaces of Sunday training (Note 1, 1860, p. 11). In a lengthy introduction to this work Mason makes several interest, resulted in a strong reaction from was necessary for children. Mason indicates (Note 1, 1860, p. 111) will have a hard time end of the singing exercise is often almost wholly ignored, and the song is made a mere the less objectionable secular melodies to habits, especially slow singing, that led amusement" (Note 1, 1860, p. 111).

Mason is also the first editor to present the idea that correct training of children in Sunday School music will both enhance their

ability to worship as adults, and improve congregational singing.

vocally in the service of song, seems to be extensively felt, and there is much inquiry as to the ways and means of doing this. Here is one of the most efficient: Let the children be taught in the Sabbath School to be done toward securing good congregational the great congregation, and very much will The importance of restoring to the people use and love the hymns and tunes used in their right and ability to participate singing. (Note 1, 1860, p. 1v)

In the same year in the preface to Sabbath School Bell No. 2 (1860), Horace Waters alludes Since he believes all music to be holy, he can tunes for Sunday School. Waters supports the premise that all music is intrinsically holy "although it is sometimes, like the livery of heaven, used for profane purposes" (Note 1). to this controversy over the use of secular defend the use of secular music. It is well known that many secular compositions will be forgotten, and their fire and of the true idea of music, to interest the adapted by their animation and embodiment young. In connection with the new sentispirit be secured for the inculcation of ments they utter, their former associations possess unequaled excellence and power as music, and are especially holfer sentiments. (Note 1) Reference has been made to Hull's desire to "furnish the largest amount of new music in the (Note 1, p. 2). In the same preface Hull sugsmallest space possible" in The Casket (1865) gests that:

For the sake of experiment will choristers using this book select such pieces as . . . "Nearer My God to Thee," "Rock of Ages," etc. learning them thoroughly, giving the children the same chance to learn them as other tunes of a more rapid movement? Then give them an opportunity to show their preference and you will soon learn they can be interested in music which is really good . . . . (Note 1, p. 2)

Hull's use of the phrase "music which is really good" to describe standard hymn repertoire seems to indicate his personal values. He seems to be trying to persuade the leaders who use this little book not to neglect standard hymns. To find this suggestion in the same preface with the boldly stated goal of providing a large amount of newly composed music seems contradictory.

ments on his inclusion of "new music, and GOOD [sic] music, suited to the tastes and adapted to Then he immediately follows this statement with, hand, so important do we consider this, that we He seems to have included standard hymns Bradbury indicates the same two goals. He comstrong in his defense of standard hymns as was implies a preconceived package of new songs in "far be it from us to object to their learning the standard tunes of the church; on the other nave inserted a large number of them in 'FRESH LAURELS'" (Note 1, p. 2). Bradbury is not as describe the inclusion of standard hymns even the capacities of children" (Note 1, p. 2). which he has now layered some existing great absence. His use of the word "inserted" to In the preface to Fresh Laurels (1867) In his book to preclude objection to their Hu11.

pensible standard pieces are used" (Note 1, p.2). writes "While nearly all the words and music in the 'old standards' which are supposed to be in providing standard hymn repertoire for children copies. S. W. Straub, in The Golden Rule (1872) "It has not been deemed advisable to introduce worker of Bradbury, makes the following statethe 'Golden Rule' are new, a few of the indis-Only two years later, Robert Lowry, a cosettled yet. Lowry avoids responsibility for by indicating that Sunday Schools already own in 'BRIGHT JEWELS' any considerable number of absence of the hymns indicates that the issue ment in the preface of Bright Jewels (1869). of new songs versus standard hymns was not p. 2). The fact that Lowry mentions the possession of all our Sunday Schools"

It is not until 1876, in the preface to Good News, that another editor follows Mason's direction and encourages the use of standard hymns by children both for worship training and for the future improvement of congregational singing. McIntosh, the editor, writes:

We considered it best to occupy some of the space with familiar pieces from former publications, and standard hymns and tunes that are already in general use among the congregations; because such an arrangement, we believe, greatly facilitates the introduction of a new book, and tends to familiarize the young people with the "worship song" of the sanctuary; a matter that should be kept constantly in view by all who would encourage congregational singing. (Note 1, p. 2)

In the preface to The Jeweled Crown (1891) Hull indicates the still secondary place of standard hymn repertoire, "A few of the old standard church tunes have been introduced to

fill parts of pages--a feature of our late books, which has been received with such general favor as to induce us to continue the same plan herein" (Note 1, p. 2).

music, and as a result be encouraged to particiinstruction in public schools seem to have immeresults. Congregational singing would improve, The controversy over the use of newly composed, child-oriented song material versus the for Sunday Schools and the rote-note method of pate in further experiences. Those advocating seems to reflect the controversy between advo-Music Course and the note method of the Normal Schools and the note method of instruction in use of standard worship hymns in Sunday School Those advocating newly composed song material cates of the rote-note method of the National public schools seem to emphasize the further Children would enjoy Sunday School and enjoy standard worship hymn repertoire for Sunday Music Course (Tellstrom, 1866, pp. 82-83). diate gratification as a primary argument. and children would develop independent musicianship. In the twentleth century denominational publishing houses produced a large number of hymnals for Sunday Schools. The goal of providing age-appropriate materials became even more important, resulting in graded hymnals. Denominational hymnals also emphasized traditional worship hymns. Non-denominational publications for Sunday Schools, less likely to be graded or to emphasize the worship hymn, continue to be available. Parallels to educational theory may be discernable in a study of the editorial statements of twentieth century Sunday School publications. Certainly the concerns were similar during the last third of the nineteenth century.

## Reference Notes

- 1. A chronological listing of the complete publication information for all the hymnals listed by short title in Figure 1.
- 1859 Bradbury, William B. Oriola. A New and Complete Hymn and Tune Book for Sabbath Schools. Cincinnati: Moore, Wilstach, Keys & Company.
- A Collection of 100 Tunes and 350
  Hymns for the Use of Sabbath
  Schools. Brooklyn, N.Y.: [n.p.]
- 860 Park, Edwards A.; Phelps, Austin;
  Wayland, Francis; and Mason,
  Lowell, (Eds.) The Sabbath School
  Hymn and Tune Book. New York:
  Mason Brothers.
- 1860 Waters, Horace, Ed. Sabbath School
  Bell No. 2, A Superior Collection
  of Choice Tunes, Newly Arranged
  and Composed, And a Large Number of
  Excellent Hymns. New York: Horace
  Waters.
- Chain of Sabbath School Melodies,
  Comprising a Great Variety of New
  Music and Hymns, Composed and
  Written Expressly for the Sabbath
  School, Together With Many of the
  Well Known Sabbath School Pieces.
  New York: Ivison, Phinney &
  Company.
- 1865 Bradbury, Wm. B. The Plymouth

Sabbath School Collection of Hymns New York: Wm. B. and Tunes. Bradbury.

New York: Ameri-With Many Popular and Sterling Old Happy Voices, New Hymns and Tunes, Ones, for the Home Circle and can Tract Society. Sabbath-Schools.

Hull, Asa, Comp. The Casket of Sunday improved edition. Philadelphia: Enlarged and School Melodies. Asa Hull. 1865

New Collection of Hymns and Tunes Perkins, T. E. The Golden Promise, for Sabbath Schools. New York: Brown & Perkins. 1866

School, A New and Extensive Collec-Expressly for Sabbath Schools, etc. tion of Music and Hymns, Prepared New York: William B. Bradbury. Bradbury's Fresh Laurels for the Sabbath Bradbury, William B. 1867

Cincinnati: Shaw, Knowles. Shining Pearls, A Collection of Choice Music for Revivals and Sunday Schools. John Church, Jr. 1868

Lowry, Robert, ed. Bright Jewels for the Sunday School, A New Collection of Sunday School Songs Written Ex-Never Before Been Published. New Which are the Latest Compositions of William B. Bradbury, and Have pressly for This Work, Many of Biglow & Main. York: 1869

1870 Marshall, Leonard. Sabbath Songs for

Lee Boston: Children's Worship. & Shepard.

Choice Collection of New Sabbath The Silver Song, A Toledo: W. W. School Music. Whitney. Ogden, W. A.

Collection of Tunes for Anniversary bath Schools. New York: T. Carl-Occasions, and General Use in Sab-The New Sunday-School Harmonist, A ton & J. Porter.

The Charm, A Collection of Sunday School Music. Chicago: Root & Bady. Bliss, P. P. 1871

New Collection of Songs Prepared Lowry, Robert and Doane, W. Howard. Pure Gold for the Sunday School, New York: Biglow & and Adapted for Sunday School Exercises. Main. 1871

the Sunday School, A New Collection of Choice Music. Cincinnati: John Sparkling Jewels for Church & Co. Shaw, Knowles. 1871

Straub, S. W. The Golden Rule, A Col-lection of Songs, Hymns, and Chants for Sunday-Schools, Juvenile Conand the Home Circle. Cincinnati: certs, Festivals, Anniversaries, John Church & Co. 1872

Sunday-School, Prayer Meeting, and Cincinnati: John Collection of New Songs for the Shaw, Knowles. The Golden Gate, Social Circle. Church & Co. 1874

- 1876 Hull, Asa. Garlands of Praise, A
  Choice Collection of Original and
  Selected Hymns and Tunes Suitable
  for Sunday-Schools, Bible Classes
  and the Home-Circle. New York:
  Asa Hull.
- 1876 McIntosh, R. M., ed. Good News, Or
  Songs and Tunes for Sunday Schools,
  Christian Associations, and Special
  Meetings. Boston: Oliver Ditson &
  Company.
- 1877 Lowry, Robert; Doane, W. Howard; and
  Sankey, Ira D. Welcome Tidings, A
  New Collection of Sacred Songs for
  the Sunday School. New York:
  Biglow & Main.
- Precious Jewels for Sabbath Schools, Prayer and Praise Meetings, and the Home Circle. New York: Himan & Woodward.
- Tucker, J. Ireland, (Ed.) The Chil-dren's Hymnal, With Tunes. Hartford, Conn.: W. W. Huntington, Agent, Publisher.
- 1881 Hull, Asa. The Gem of Gems, A Choice
  Collection of Sacred Songs, Original
  and Selected for the Use of SundaySchools, Bible Classes and Social
  Worship. New York: Daniel W.
  Knowles.
- 81 Lowry, Robert, and Doane, W. Howard.
  Good as Gold, A New Collection of
  Sunday School Songs. New York:
  Biglow & Main.

- 1885 The Epworth Hymnal, Containing Standard Hymns of the Church, Songs for the Sunday-School, Songs for Social Services, Songs for the Home Circle, Songs for Special Occasions. New York: Hunt & Eaton.
- 385 Vaughn, John B. Our Song Wreath, For Sunday-Schools and Gospel Meetings. Dalton, Ga.: A. J. Showalter & Company.
- 91 Hull, Asa. The Jeweled Crown, A
  Choice Collection of Original
  Hymns and Tunes for the SundaySchool. New York: Asa Hull.
- Lorenz, E. S. Spirit and Life No. 2,
  A Collection of New Songs for the
  Sunday School, Young People's
  Societies, Gospel and Devotional
  Meetings, etc., etc. Dayton, Ohio:
  Lorenz & Company.
- System Evangelical Lutheran Church in North America. Sunday-School Book, Forthe Use of Evangelical Lutheran Congregations. Revised and enlarged edition. Philadelphia: General Council Publication Board.
- Kirkland, W. D.; Atkins, James; and Kirkpatrick, William J. The Young People's Hymnal, Adapted to the Use of Sunday Schools, Epworth Leagues, Prayer Meetings, and Revivals.

  Nashville: Publishing House of the Methodist Episcopal Church, South.
- 1898 Brown, S. M. and Hunt, J. M. Songs of Zion, A Collection of Old and New Songs for Sabbath Schools, Prayer

::; ::;

Meetings, Revivals and All Other Kansas City: Word and Way Pub. Co. Religious Worship.

## References

The development of the Sunday school 1780-1905. Boston: The International Sunday-School Association, 1905.

Cambridge, Mass.: The President reprint ed. Hamden Conn.: Archon Books, and Fellows of Harvard College, 1940; Three centuries of American Foote, H. W. hymnody.

Boston: Hilliard, Gray and Company, 1826. Mason, L. Address on church music.

Mason, L. Sabbath school songs or hymns and music suitable for sabbath schools, (7th Boston, Massachusetts, Sabbath School Society, 1836. Tellstrom, Theodore A. Music in American educa-New York: W. W. tion past and present. New You roution & Company, Inc., 1966.

## A Position Paper --

## TOWARD KNOWING AND LIKING MUSICAL STYLES: THE HEURISTIC METHOD

## Washington University in St. Louis Patricia K. Shehan

ಥ expansion of students' understanding and enjoybetter understood and is valued more highly as objective evaluation is desirable to determine ment of many divergent musical styles. It is dents have been previously unfamiliar becomes generally assumed that music with which sturesult of exposure and instruction; however, One concern of music education is the the validity of this assumption.

unplanned or formally structured, the individual remain within a personal environment. As music mitted to the student, attitudes are developed, media of television, radio, and recordings may school, in cars, stores, offices, and restauris sounded and information on styles is trans-A wide variety of sources exposes a stuexert a compelling influence on individuals becomes selective about the music chosen to ants. Whether the exposure is informal and through styles made available at home, at and preference is learned and exercised. dent to many musical styles every day.

graphic and written self-reports, physiological music education which affect the music prefer-There are many factors in the process of ence of the students. A number of techniques have been utilized to assess musical preference, including verbalized responses, pictomeasures, and behavioral evaluations (Kuhn, 1981). A survey of the literature on music preference research indicates that music

preference decisions are based upon the "interaction of input information and the characteristics of the listener, with input information consisting of the music stimulus and listener's cultural environment" (LeBlanc, 1980).

sampling of many styles, and not just the indiv-AB knowledge and skills to prepare the student for styles are eliminated from the curriculum, stuexperiences should focus on the development of dents are limited in their future music selection behaviors. Instruction should place stureflected in recent basal music series, music dents in a position to make intelligent value judgments concerning the style selection they prefer as performers and consumers of music. Music educators are responsible for the exposure of students to the variety of music idual teacher's, or the student's, preferred materials presented to students should be a styles present throughout the world. Music the personal valuing process which occurs.

efforts must be expended to impact on the develmunity subgroup. Music educators have only the outside the classroom. The cultural background music program is minimal, and does not compare with the duration spent in musical experiences activities of the individual's particular com-Within the constraints of the music classroom, time allotted during the school day, and must barrage of styles through the media or social Music educators face a basic problem in of the community makes available a constant amount of time a student spends in a school their roles as guides to understanding and appreciation of musical styles in that the make the most effective use of that time. opment of knowledge, skills, and values.

Miller (1974) cites reasons for the emer-gence of rock music as the most highly preferred music style of upper elementary children and adolescents:

Listening to rock music is strongly associated with nonschool, social activities.

This cultural phenomenon has become a powerful conditioned reinforcer because of nonmusic or extramusic events with which it is connected. (p. 78)

Sociocultural barriers shape the individual's outlook and therefore act to inhibit the student in transcending environmental limitations. It is essential that a music class is wellstructured, and that materials and experiences are presented in an attractive manner that will result in maximum learning as a foundation for affective response.

Masterful teaching and successful learning behavior are dependent upon the effective communication of information through the interaction of the student and teacher with the material and activity presented. The successful attainment of concepts hinges on teaching methodology. A focus on methodology in music education is necessary to eliminate the isolation of school music from that music available in the out-of-school cultural environment, and to allow the learning setting to release knowledge in ways that render students more educated and interested.

Since the mid-1960's, a growing number of educators have advocated that instruction provide opportunities to exercise creative options, imagination, and self-mastery. Teachers have been encouraged to set up circumstances in which the student alone might find the concept being taught. The heuristic

method is related to exploratory problemsolving techniques that utilize self-education to improve performance. Intensive preconceptualization efforts are essential to the approach, which is largely experiential and participatory. Students are encouraged to explore their environment for solutions to problems, and then to make inferences of concepts from invariant properties.

Bruner is the major proponent of what is termed the discovery method, a type of learning which requires the rearrangement of subject matter structure so that the learner is able to go beyond the evidence presented to new insights. Emphasizing process rather than content, Bruner (1968) advises:

Let us not judge our students simply on what they know. That is a philosophy of the quiz program. Rather, let them be judged on what they can generate from what they know--how well they can leap barriers from learning to thinking. (p. 192)

The discovery method is heuristic, insisting that the student manipulate materials and cope with incongruities and contrasts, from which information is derived.

Fowler (1966) compares the didactic-deductive approach to the heuristic-inductive approach:

While the deductive approach begins with the statement of a rule, the induction method relies on being able to tell how to do it. (p. 129)

In making application of this indirect instructional method, Fowler (1970) credits musical performance with the illustration of the time-honored philosophy of learning by doing.

## He follows:

The issues in the performance class are not student-teacher but student-music. Through continual experimentation and discovery, the possibilities of both the student and the art of music expand to encompass the total range of human and music capabilities. (b. 26)

Holding to a pragmatic belief that learning occurs through experience, MacMurray (1958) states that

tion of musical effect is not simply to enjoy playing or singing but to enjoy the sense of discovery and intellectual grasp. (p. 53)

Woodruff (1966) discussed a similar point:

most effective if they are genuine personal encounters with music rather than verbal substitutes for those encounters. This implies of course, that the student, not the teacher, is the active party in the encounter. (p. 54)

An examination of music textbooks used in the general music classroom gives evidence of the concern expressed by music educators about the need for programs which embody hands-on, experiential approaches to music and musical style (Boardman and Landis, 1981; Choate, Berg, Style (Boardman and Landis, 1981; Choate, Berg, Savage, 1980, and Reimer, Hoffman, and MacNeil, 1981). Reimer, et al. preface their widely-used series in this manner:

To be effective, aesthetic education must be active education . . . Without imposition on the child, the textbooks show the child that music can be valued by all who are willing to become involved in it. (p. xi)

Implicit in textbooks and elementary music education curriculums upholding an activities-oriented view is the belief that exposing students to selected works through repeated listening or performance experiences will cause the music to be more reinforcing to the students.

In the chorus, band, orchestra rehearsal, as well as in many general music classrooms, the playing of instruments and singing are the initial phase of the learning process rather than the end. Students listen, discuss, research, report, and experiment with the music they play and sing. The meaning of music emerges as the student discovers its forms, and its cultural manifestations.

Several studies underline the importance of student involvement in musical experiences for increasing cognitive awareness of the structural elements of musical styles. Bradley (1974) examined the aural and visual discrimination of fourth grade students for basic music notation and elements. He found that total student involvement in concept discovery through composition, performance, and listening activities evidenced greater achievement gains than those in the traditional listening and singing class. Lyke (1967) discovered the value of keyboard performance in clarifying musical concepts, such that pitch discrimination and tonal memory was better developed through a plano class than those through the traditional general music class

Findings in recent music education research indicate that a greater awareness of the components of music through performance effects a greater liking for that type of music. Familiarity of music selections by high school choir members through rehearsal and performance produced an increase in verbal preference ratings (Clary, 1979). Shehan (1981) found that the heuristic method of Indonesian gamelan instruction was more effective in increasing operant preference for gamelan music, as well as effectiving significantly greater increases in cognitive

relationship between achievement and preference, Research findings support the educational truism music. It appears that as one exercises skills that knowing is valuing. It may be that appreciation of an art form develops in direct relaquently selected for listening. Participatory Bartlett (1973) and Shehan (1981) drew a and concluded that greater awareness of music style, especially in the discovery of music events through performance experiences, that music is better appreciated and is more freactivities which rely on student interaction with the elements of music allow for greater structure effects a greater liking for that of discrimination in listening to a musical gains in cognitive and affective response. tionship to depth of understanding. Musical materials presented in a manner which involves students actively in the concrete experiences of instrumental and vocal performance and inductive reasoning causes improved cognitive skills and increased preference for the music studied. The teaching behavior for a heuristic approach is preparatory, beginning before the arrival of the students. The class environment is designed for ultimate student involvement as instruments are positioned and

group and individual level, such that the teacher use of limited class time in a discovery setting. audio-visual materials are developed for maximum facilitates learning by guiding insight and per-Teacher-student interaction occurs at both the ception of musical events and concepts.

to include study units on the music traditions of otherwise unfamiliar musics should be considered, music styles can produce cognitive and affective cultural education, and the arts in general education movement should encourage music educators curricula. In relatively short periods of time, classroom instruments and resources can be utila wide variety of cultures. The challenge of a cient and effective instruction in over-crowded Instruction in unfamiliar or little known heuristic approach to the study of foreign or and efforts must be directed to provide effidevelopment. The current interest in multiized to present divergent music styles.

assume that time and materials are too limited to music that is less reinforcing in such a way that Some authors have suggested that one goal of ineffective in expanding children's knowledge and to underestimate the potential of the profession. provide adequate instruction of a music style is enjoyment of great music. Effective instruction Such assumptions can lead to programs which are school music programs is to expose students to it acquires greater reinforcement value. To can increase children's receptiveness of unfamiliar musics.

## References

Effect of repeated listenings on structural discrimination and affective Journal of Research in Music Bartlett, D. L. response.

- Boardman, E. and Landls, B. Exploring Music. New York: Holt, Rinehart, and Winston, Inc., 1981.
- Bradley, I. L. Development of aural and visual Journal of Research in Music Education, perception through creative processes. 1974, 22, 234-240.
- Toward a theory of instruction.
  W. W. Norton and Co., Inc., 1968. Bruner, J. S. New York:
- Choate, R. A., Berg, R., Kjelson, L., and Troth, E. New Dimensions in Music. York: American Book Company, 1976.
- Clary, R. The effect of rehearsal and performpreference for choral music. Unpublished master's thesis, Kent State University, ance on high school choir students'
- Fowler, C. B. Discovery: One of the best ways to teach a musical concept. Music Educators Journal, October, 1970, 25-30/
- Fowler, C. B. Discovery method: Its relevance for music education. Journal of Research in Music Education, 1966, 14, 126-134.
- Music Education 8, 1981, 2-38. Kuhn, T. L. Instrumentation for the measurement of music attitudes.
- Bulletin for the Council of Research in Music Education 61, Winter 1980, 29-34. LeBlanc, A. Outline of a proposed model of sources of variation in musical taste.
- Lyke, J. Improving listening through a program

of keyboard experiences in elementary music. Bulletin for the Council of Research in Music Education, 1967, 9, 34-41. MacMurray, F. Pragmatism in music education. In N. B. Henry (Ed.) Basic Concepts in Music Education. 57th Yearbook of the National Society for the Study of Education. Chicago: University of Chicago Press, 1958.

Marsh, M. W., Rinehart, C., and Savage, E. The Spectrum of Music. New York: Macmillan Publishing Co., Inc., 1980.

Miller, D. M. Effects of selected music listening contingencies on arithmetic performance
and music preference with educable mentally
retarded children. Doctoral dissertation,
Columbia University, 1974.

Reimer, B., Hoffman, M., and MacNeil, R. Silver-Burdett Music. Morristown, N.J.: General Learning Corp., 1981.

Shehan, P. K. The effect of didactic and heuristic instruction on the preference, achievement, and attentiveness of sixth grade students for Indonesian gamelan music. Doctoral dissertation, Kent State University, 1981.

Woodroff, A. D. Concept teaching in music. In B. C. Kowall (Ed.) Sourcebook III. Washington, D.C.: Music Educators National Conference, 1966.

## ABSTRACT

ACHIEVEMENT OF PITCH READING AND RHYTHM READING FOR BEGINNERS AND ADVANCED PIANO STUDENTS USING AN AURAL-VISUAL READING INSTRUCTION MODEL (AVRI)

Mary Dawn Bledsoe University of Missouri-Kansas City, 1981 The question of this investigation was:
Will the use of AVRI instruction result in a gain in reading the symbol, performing the symbol, and retaining these skills by beginning and advanced plano students? This study was to compare the level of achievement of nineteen beginning plano students and six advanced plano students and six advanced plano students on a rhythm and pitch reading criterion-referenced test when AVRI Instruction was presented to all students in a three-month period of training.

For pitch reading, the study was limited to the achievement: steps in teaching keyboard, direction in keyboard, sets of black keys, sharp names, flat names, and reading staff notation. In the case of rhythm reading tasks, the study was limited to the achievement of duration of long and short sounds, quarter notes, eighth notes, sixteenth notes, rest values, tied values, sightreading new pieces. The investigation period was limited to the achievement within a three-month instructional period. Finally, the study was limited to the achievement of pitch reading and rhythm reading at one music studio.

A quasi-experimental design using repeated measures with equivalent instruction was adopted for examining the primary question. The pretest scores, the post-test scores, and the retention scores on the pitch reading test and the rhythm reading test constitute the primary

-; ∴\_

Secondary data were years of plano training of subjects. data.

both pitch reading and rhythm reading. However, pitch reading and rhythm reading after one month significant gains from pre- to post-tests for both groups did not retain post-test level on Beginners and advanced plano students had of no instruction.

### ABSTRACT

A STUDY OF THE VOCAL REGISTERS AND TRANSITIONAL PITCHES OF THE ADOLESCENT FEMALE

University of Missouri-Kansas City, 1981 Anita Cyrier

duction between the vocal range, vocal registers, The problem was to investigate the nature of female adolescent voices related to pitch proand transitional pitches of pre-pubescent and post-pubescent females.

The purpose of this study was to measure the absence of any transitional pitches within the vocal range of the adolescent female voice in semitones and to identify the presence or vocal range.

tion. They were the total number of volunteers and fifteen were the subjects of the investiga-Shawnee Mission District elementary, junior and responding to a request for participants from Eighty-five girls between the ages of ten senior high schools.

A standardized record form was designed by the investigator on which the vocal ranges of the girls was recorded. The identity of any

every twelfth student's responses with a trained transitional pitches was made observationally by the investigator. Then reliability of measurement was determined by simultaneously recording observer who then independently rated and recorded the same performances. Interviews were conducted individually with form. To identify her highest pitch the student pitch was identified the investigator determined if the voice displayed any transitional pitches. all semitones in her lower range had been sung. The pitch name was recorded on the evaluation was asked to sing from g ascending in a four semitone pattern successively until she could sing no higher. After the subject's terminal starting each pattern a half step lower until down a four semitone pattern using a "la" syllable, each girl being asked to sing from  $\mathtt{g}^{\mathtt{t}}$ 

than do the fourteen and fifteen year olds. The The results of the study show that ten year Data show that eleven and twelve year old girls' tional pitches. The thirteen and fourteen year old groups were more consistent in the width of older the age group the wider the vocal range. pitches. The fourteen year old group had the their ranges and in placement of transitional old girls have a considerably narrower range voices display an erratic pattern of transitional pitches in relation to the other age widest range and the highest set of transigroups considered in the study.

two conclusions regarding the characteristics of transitional pitch was observed to be higher in the fourteen and fifteen year olds' voice range than in the ten and eleven year olds suggesting First, the upper Subject to the Ilmitations of the study, that transitional pitches may be higher for older adolescent girls. Second, the data the female voice were drawn.

suggest that a child's natural range widens after age eleven to include tones above and below that set of semitones that were natural to her voice as a ten year old.

## ABSTRACT

SELECTED ASPECTS OF THE HISTORICAL, PRINCIPLES OF INSTRUMENTAL MUSIC EDUCATION IN AMERICAN SECONDARY PSYCHOLOGICAL AND PHILOSOPHICAL SCHOOLS: A SECONDARY SCHOOL BAND CURRICULUM

Washington University, St. Louis Aurelia W. Hartenberger

for this reason that a music curriculum (instrutemporary music educators is the inevitable and ubiquitous call for "return-to-basics." It is mental or whatever) is needed which will meet the felt needs of administrators of this time and still do a responsible job musically and A growing concern on the part of conaesthetically.

assist secondary band music teachers in developprovide a varied, meaningful, and encompassing ing a viable school band curriculum that will musical experience for all children and will The intent of this dissertation is to help meet the unique needs of contemporary American education.

mental music in public schools subsequent to the learning. The historical development of instruthe curriculum, consideration was given in part To provide insight into the development of I to selected historical aspects of philosophical theories and psychological approaches to turn of the twentieth century follows in

chapters 2, 3, and 4, paying attention to the social, political, and cultural factors which determined its direction. The curriculum in part II of this paper is designed to emphasize the emerging trend toward instructional levels provide for varied experifocus for the guide. A sequential approach to understanding basic music concepts through the dimensions of music provides the needed structure for the guide, and a flexible, but direc-Both long-range program objectives and shorttional and comprehensive organization of the musical growth through aesthetic experience. range instructional objectives provide the ences and the integration of learning.

cognitive, psychomotor, and affective domains. the life of every person. Attention is given defines music as a vital sustaining force in serves as the introduction to the curriculum to the long-range program objectives in the Chapter 5 of the dissertation, which

Chapter 6 deals with course descriptions and the sequential structure of the program. Following are suggested instructional procedures for the music teacher.

in chapter 7. In chapter 8, a sequential organizational plan of study for musical growth sions of music is outlined by semester for each instrumental ensemble. Short-range operational through conceptual understanding of the dimenobjectives in musical competencies (technical, performance, aural) and musical creativity are Organizational procedures are considered of six years the student participates in an presented, followed by musical activities.

Chapter 9 deals with evaluative criteria instruments for assessing achievement toward

specific instructional objectives. Numerous music reference sources are provided in chapter 10. Chapter 11 is concerned with the administrative business operational procedures associated with the instrumental program.

The curriculum is quite specific, in order that it can serve as a framework on which a teacher can build, exercising sound educational practices.

### ABSTRACT

AZTEC INDIAN MUSIC AND CULTURE IN THE ELEMENTARY SCHOOL:
RATIONALE, METHOD,
AND CONTENT

Linda Boyer Johnson Washington University, St. Louis

lar relevance and benefit to the total education ing dimension to general music programs, provide broadened view of music education is of particucentricity. Unfamiliar musics can add an excitan additional opportunity for furthering musical eration an expressed concern for more knowledge Music educators, having taken into considraces and cultures. Consequently, music educaon those who comprise the American society and of the contemporary child since it purports to tors must continue to expand the music experiwith musical cultures other than those of the better acquaint themselves and their students reduce the traditional tendency toward ethnointernational understanding among different their cultural heritage, have attempted to learnings, and help to promote and further Western tradition. The emergence of this ence to fit today's changing world.

The only primitive music native to the Americas is that of the American Indians. The Aztec civilization, as it existed in the 15th and early 16th centuries, serves as an example of a highly organized Indian culture, victimized by European acculturation which was accomplished through the destruction of that which was considered pagan—most of the cultural beliefs. Fortunately, a historical consciousness existed among tribal members which was passed on from generation to generation and which continues onward in the presentation of a legacy of literary materials and archeological remains.

The purposes of this study are (1) to provide the music educator with the necessary rationale for the inclusion of Aztec music in the general music education curriculum; (2) to provide historical and cultural information which will lend to a fuller and more thorough understanding of the Aztec culture as a whole; (3) to increase the knowledge and appreciation for the musical system of the Aztec Indians through a reconstruction, explanation, and illustration of its music; and (4) to suggest ideas for an integrated unit of study on Aztec music and its culture, which can be incorporated into the general music education curriculum for upper elementary and middle school.

### ABSTRACT

A COMPARISON OF ELEMENTARY GENERAL MUSIC EDUCATOR PRACTICES AND RATIONALE FOR THE INCLUSION OF MUSICAL VARIETY IN AESTHETIC EDUCATION TOWARD BROADENING MUSICAL TASTE

Michael Benjamin Roberts Washington University, St. Louis

Within a concentrated effort to broaden and enrich life-long taste toward the variety of musical styles throughout the world, teacher selection of music for use in the classroom is a critical issue. The music education profession may find its greatest influence on consumers in the music which is provided for students in the classroom. An individual teacher's training and musical experience, behavioral goals and objectives of the class lesson, the method of presentation, properties of the musical stimulus, and learning and personal characteristics of the students all combine to influence the ultimate decision.

The purpose of this study is to discover the extent to which elementary general music teachers are currently using a wide variety of musics for broadening musical sensitivity and taste in the development of meaningful aesthetic response within the individual student. An extensive discussion of factors that influence the development of musical taste and measures of attitude, taste, and preference is presented. A further purpose is to establish through a review of the literature that elementary general music education as aesthetic education may shape and broaden musical sensitivity and taste through the use of a wide variety of musics in the teacher-selected curriculum.

A research project was initiated to identify the variety of musical styles used in the classroom by elementary general music educators. The areas of investigation included the use of basal music textbooks and supplementary music materials, music genres in actual use in the classroom, and primary curricular objectives.

Based on the results of a survey of Missouri elementary general music teachers, the following conclusions were reached: (1) Textbooks and

variety of music genres is in current use by the Australia/Pacific, and Medieval Europe are least used; (3) More than three quarters of elementary nificant relationship between the most important music curricular objective as perceived by music educators and the amount of musical variety used music educators in the elementary general music Over half of the teachers surveyed consider the more important curricular focus than the development of musical skills; (5) There is no sigsupplemental materials which provide a variety general music educators use a moderate to high of musical styles are available to practicing and Pop/Rock are most frequently presented by classroom. American Folk, Western Classical, development of aesthetic responsiveness as a the teacher, while music of Southeast Asia, amount of music variety in the classroom; music educators for classroom use; (2) A in the elementary general music education classroom.

## ABSTRACT

NON-PARTICIPATION OF FRESHMEN AND SENIOR BOYS IN HIGH SCHOOL CHOIRS

Barbara J. Kourajian University of Missouri-Kansas City The problem of this study was to investigate reasons why high school boys do not join choir. The purpose of the study was to determine the rank order of a list of reasons for not joining choir from ratings of these items by freshmen and senior boys who were not in choir in six Kansas City suburban high schools. A descriptive design was used for the study.

During an interview with the researcher, the subject was first asked to rate the

Importance to him of each of a list of eight reasons in relationship to his decision not to join choir. Next the subject was asked a set of questions probing his background musical experience. Finally, the subject was given a new copy of the list of reasons and asked to rate the items an additional time.

The sample was a random selection of 72 freshmen and 72 senior boys (12 freshmen and 12 seniors from each school). Primary data were the importance rating given each item by the subject. Grade level, previous choral experience, and influence of someone else constituted the secondary data. Additional secondary data included the subject's responses to questions about his musical background and attitudes about singlar.

Data were analyzed for frequency distributions and crosstabulations. The Kruskal-Wallis One-Way Analysis of Variance was used to test for statistical significance.

There was no significant difference in the rank order of reasons as given by freshmen and seniors. No significant difference was found in the rank order of reasons related to whether the subject had a previous choral experience or not.

### ABSTRACT

A PILOT STUDY COMPARING GROUP AND INDIVIDUALIZED INSTRUCTION FOR TRAINING OF VOCAL PITCH MATCHING ACCURACY

Ellen K. Marx University of Missouri-Kansas City The problem of this study was to obtain

evidence that achievement of vocal pitch matching accuracy can be increased with training. The purpose of this study was to compare the achievement of vocal pitch matching accuracy of seventh and eighth graders who were trained with group and individualized instruction.

The study was limited to the effect of treatment on one task--vocal pitch matching accuracy. Training tapes, pre-tests and posttests used a synthesizer for consistent sound with equal amounts of time between items for student repetition.

A quasi-experimental design was used in this study. The sample was drawn from two parochial schools. All seventh and eighth graders were involved in group instruction. A smaller sample was drawn for individualized instruction.

The primary data consisted of the pre- and post-test scores. Sex, type of instruction, grade level, and school constituted the secondary data.

Frequency distribution, t-test, analysis of variance and mean scores were used to test for significant differences in achievement between groups.

The findings in this study indicate that vocal pitch matching achievement can be improved with training. In this study, students trained with individualized instruction achieved statistically significant gains than those trained with group instruction, although both groups showed significant gain. School, grade level, and sex did not make a significant difference in achievement.

Subject to the cfrcumstances and

limitations of this study it was concluded that vocal pitch matching accuracy can be improved with training.

### ABSTRACT

A STUDY OF SELECTED CULTURAL, SOCIOLOGICAL, AND PSYCHOLOGICAL FACTORS IN THE MUSIC EDUCATION OF MEXICAN-AMERICAN CHILDREN

Douglas Edward Schoen Washington University, St. Louis The main objective of this study is to elucidate ways of improving public school music instruction for children of Mexican or Mexican-American descent. Specifically, the study is designed to present ways in which cultural differences and Hispanic musical heritage can be understood and capitalized on by teachers in the United States who may be working with immigrant children in their classrooms.

Chapter one states the intent and scope of the study and explains sociological terms such as Tejano, Chicano, and La Raza. Chapters two through six analyze the musical heritage of Mexico according to major cultural periods: pre-Conquest period, Colonial period, period of Independence, and Twentieth Century.

Chapter seven analyzes current trends in Mexican music education, based on direct observation of class sessions and library facilities, and personal interviews with educators in Mexico City and Puebla.

Chapters eight and nine discuss distinctive aspects of the Mexican mind-set and particular obstacles to teaching which arise from differences between typical Mexican and Anglo

11fe-styles.

Chapter ten offers practical pedagogical suggestions based on the information discussed in chapters one through nine. Music and dance materials for elementary and secondary school classes are presented, along with specific instructions for effectively utilizing these materials.

Chapter eleven analyzes current trends in music education with immigrant children in the United States. Results of a survey of music educators and administrators in Florida, Texas, Colorado, and California are presented. This survey deals with distinctive disciplinary problems, motivational techniques, curricula, and materials.

Conclusions in chapter twelve focus on implications of this study for the general education and the music education of Mexican-American children. The study includes a bibliography, discography, list of record distributors, and five appendices which contain newspaper and magazine articles, definitions of Spanish musical terms, descriptions of Mexican instruments, musical excerpts for classroom use, and survey forms and questionnaires pertaining to chapter eleven.



U.S. Department of Education

Office of Educational Research and Improvement (OERI)

National Library of Education (NLE)

Educational Resources Information Center (ERIC)



#### REPRODUCTION RELEASE

(Blanket)

	rion (Class of Documents): ournal of Reseavch in	, Music Education
Series (Identify Series):		
Division/Department Publications (S	Specify):	Publication Date:
•		1962-2000
II. REPRODUCTION RELEA	SE:	
monthly abstract journal of the ERIC system and electronic media, and sold through the	n, Resources in Education (RIE), are usually ma	to the educational community, documents announced in the de available to users in microfiche, reproduced paper copy c). Credit is given to the source of each document, and,
If permission is granted to reproduce a bottom of the page.	and disseminate the identified documents, please	e CHECK ONE of the following three options and sign at the
The sample sticker shown below will be affixed to all Level 1 documents	The sample sticker shown below will be affixed to all Level 2A documents	The sample sticker shown below will be affixed to all Level 2B documents
PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL HAS BEEN GRANTED BY	PERMISSION TO REPRODUCE ANI DISSEMINATE THIS MATERIAL IN MICROFICHE, AND IN ELECTRONIC MI FOR ERIC COLLECTION SUBSCRIBERS HAS BEEN GRANTED BY	D PERMISSION TO REPRODUCE AND EDIA DISSEMINATE THIS MATERIAL IN
sample	sample	- sample
TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)	TO THE EDUCATIONAL RESOURCE INFORMATION CENTER (ERIC)	INFORMATION CENTER (ERIC)
Level 1	Level 2A	2B
1	†	Level 2B
Check here for Level 1 release, permitting reproduction and dissemination in microfiche or other ERIC archival media (e.g., electronic) and paper copy.	Check here for Level 2A release, permittin reproduction and dissemination in microfiche a electronic media for ERIC archival collection subscribers only	and in reproduction and dissemination in microfiche only
	ocuments will be processed as indicated provided reproduct in to reproduce is granted, but no box is checked, documents	
as indicated above. Reproductio contractors requires permission fr	on from the ERIC microfiche or electronic media	e permission to reproduce and disseminate these documents a by persons other than ERIC employees and its system on-profit reproduction by libraries and other service agencies
Sign here, → Signature:  Null I. July  Please Organization/Address:	Peril	olled Name/Position/Title:  William Fredrickson, Editor  sphone: 816-235-2919 FAX:816-235-5264
please Organization/Address: 4949 Cherry St. Kausas City Mc	6 64110 E-M	tall Address: - 4.09/17/01

umkc. edu

#### III. DOCUMENT AVAILABILITY INFORMATION (FROM NON-ERIC SOURCE):

If permission to reproduce is not granted to ERIC, *or*, if you wish ERIC to cite the availability of these documents from another source, please provide the following information regarding the availability of these documents. (ERIC will not announce a document unless it is publicly available, and a dependable source can be specified. Contributors should also be aware that ERIC selection criteria are significantly more stringent for documents that cannot be made available through EDRS.)

Publisher/Distributor:						
Address:						
Price:		,	• %.•	:		
IV. REFERRAL OF ERIC	TO CODVEIG	CHT/DEDE	ODUCTION	ЛИ ВІСИТ	S HUI DEB:	
If the right to grant this reproduction re address:						
Name:						
Address:						
·						

Send this form to the following ERIC Clearinghouse:

ERIC/CHESS 2805 E. Tenth Street, #120 Bloomington, IN 47408

However, if solicited by the ERIC Facility, or if making an unsolicited contribution to ERIC, return this form (and the documents being contributed) to:

ERIC Processing and Reference Facility 4483-A Forbes Boulevard Lanham, Maryland 20706

Telephone: 301-552-4200
Toll Free: 800-799-3742
FAX: 301-552-4700
e-mail: ericfac@inet.ed.gov
WWW: http://ericfac.piccard.csc.com

EFF-087 (Rev. 2/2000)